

TELAAH SCIMAGOJR

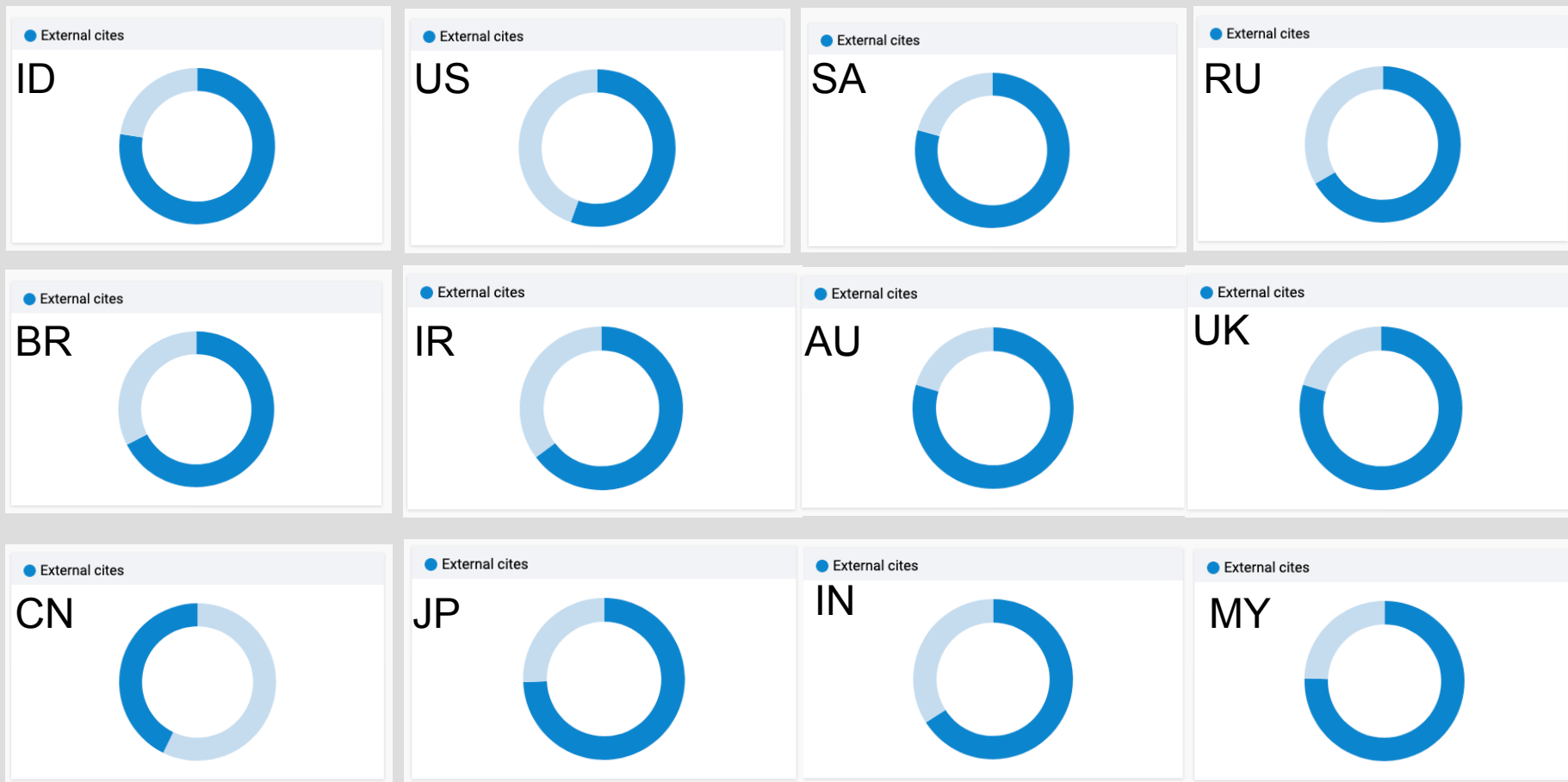
Oleh:
Dasapta Erwin Irawan
Institut Teknologi Bandung, [RINarxiv](#)

Metode

- Scimagojr.com
- Menu “Viztools”
- Eksplorasi data

Country graph

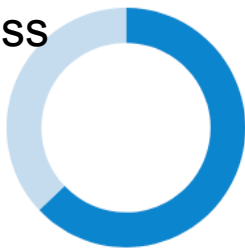
Self vs external cites



Self vs
external cites
dari
Indonesia
pada
berbagai
kategori

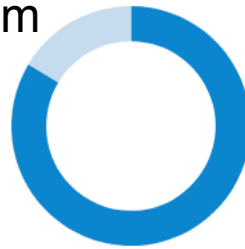
● External cites

Business



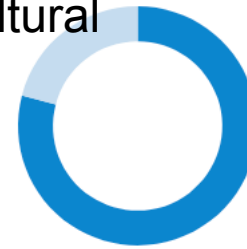
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Biochem



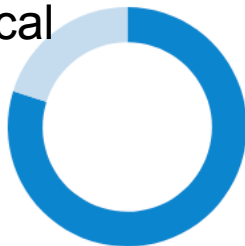
● External cites

Agricultural
Bio
Sci



● External cites

Chemical
Eng



● External cites

Computer
Sci



● External cites

Earth
Planet
Sci



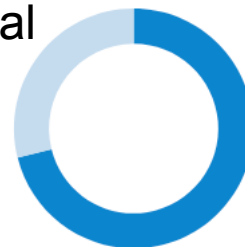
● External cites

Energy



● External cites

Material
Sci

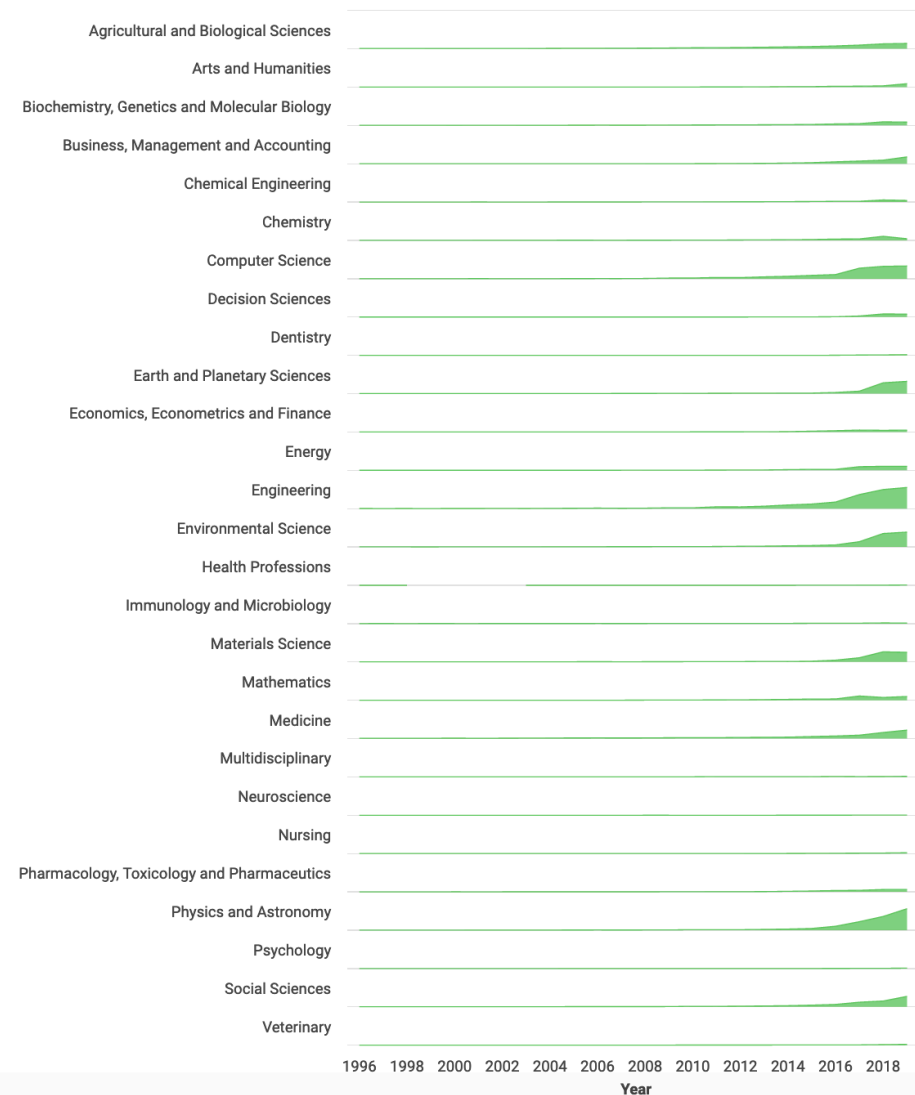


● External cites

Math



Documents by subject areas



Docs by subject areas

Menunjukkan perkembangan jumlah docs per subject areas tahun 1996-2020

Ada yang berkembang sejak lama (seperti engineering, computer science)

Ada yang belakangan (seperti earth and planetary sciences, energy, physics and astronomy)

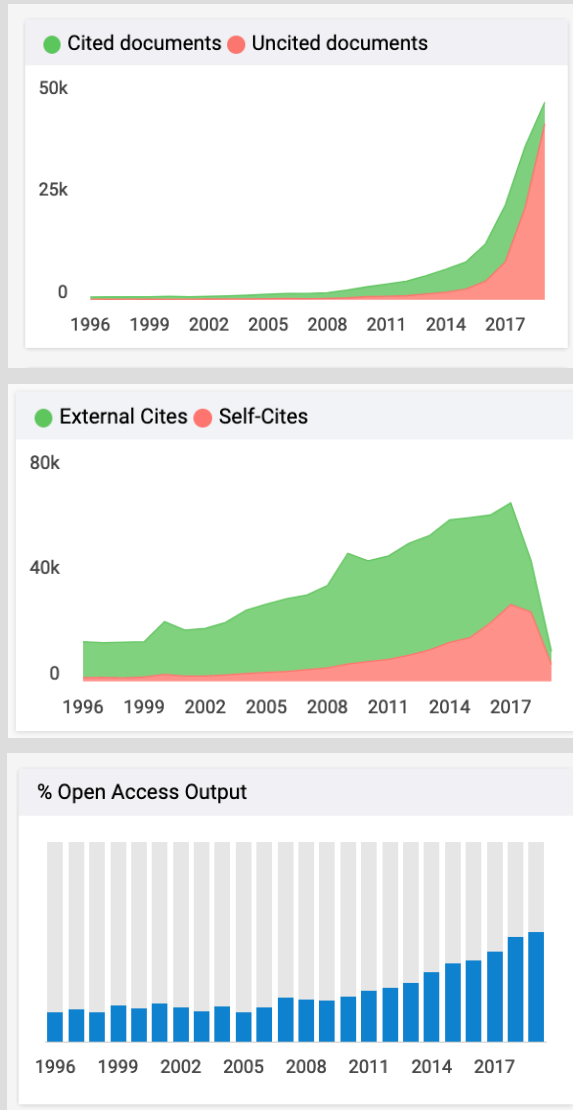
Banyak juga yang stagnan (seperti matematika, arts and humanities, agricultural biological sciences)

Citations

Jumlah totalnya mengalami peningkatan yang ditandai dengan “tekuk lereng”/ *slope break* (istilah geomorfologi) pada tahun 2008 (1294), 2012 (3288), 2015 (6106), 2016 (8446).

Jumlah external cites dan selfcites meningkat secara proporsional dengan *spike* terjadi di tahun 2000, 2009 dan 2014. Penyebab?

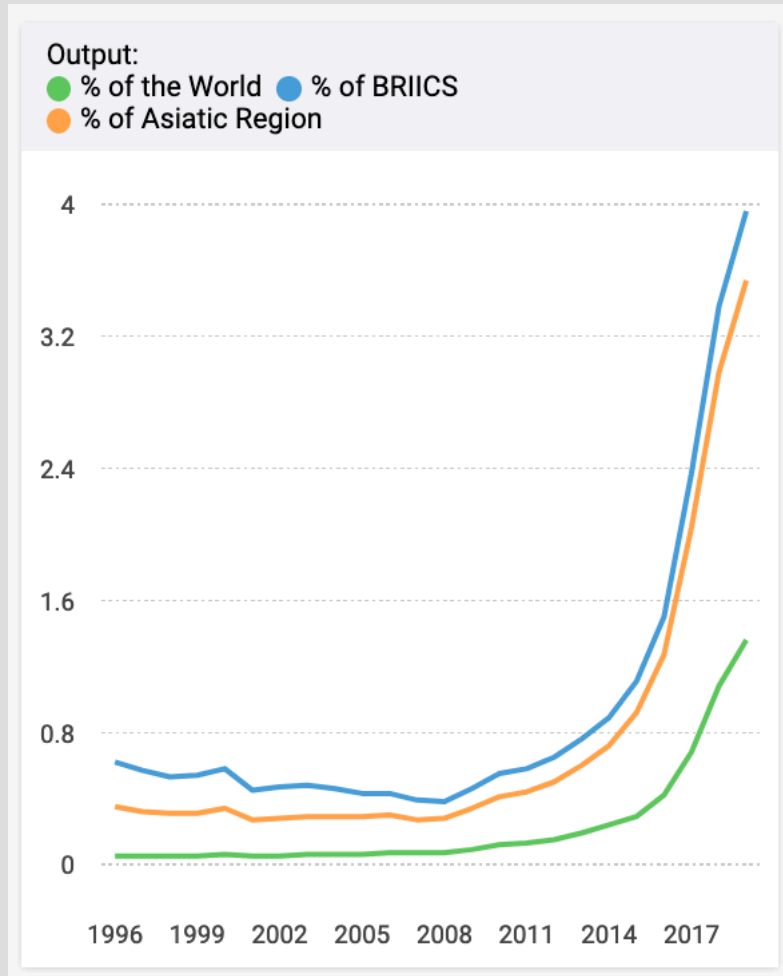
Peningkatan jumlah sitasi (sepertinya) berhubungan dengan peningkatan jumlah dokumen berjenis OA.



Proporsi luaran

Pada tahun 2008 = 0,07% dunia dan 0,28% asiatic

Pada tahun 2019 = 1,36% dunia dan 3,54% asiatic



% kolaborasi internasional



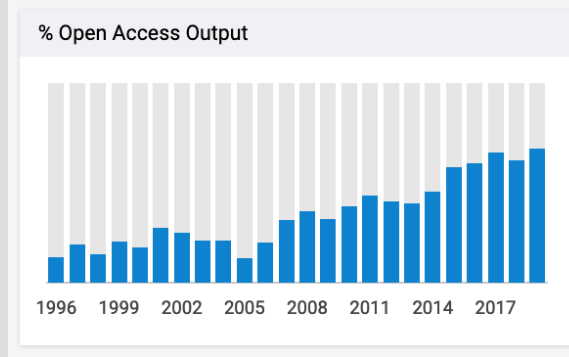
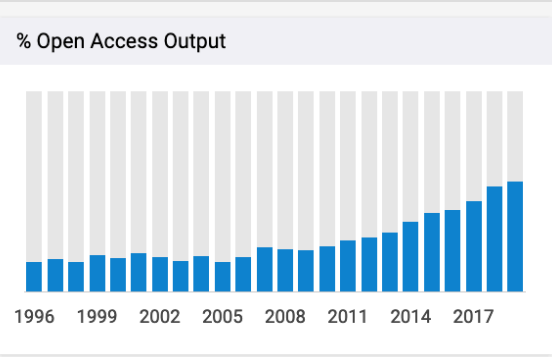
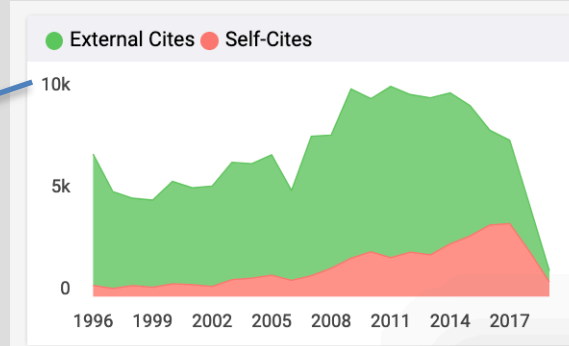
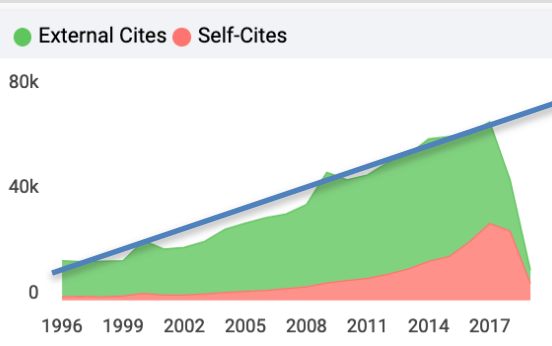
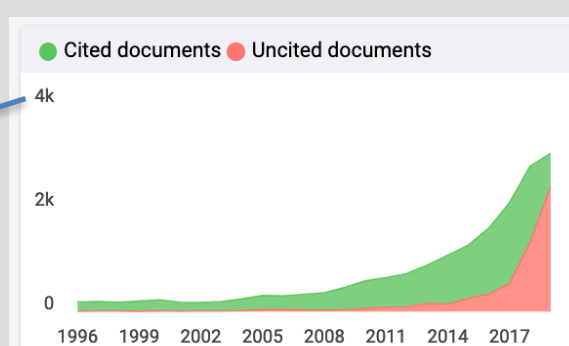
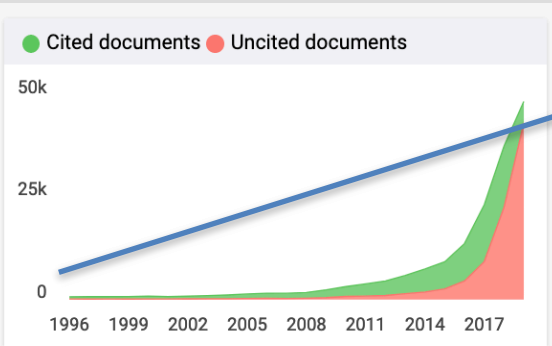
Menunjukkan % dokumen yang ditulis bersama dengan penulis dari negara lain.

Menurun. Penyebab?

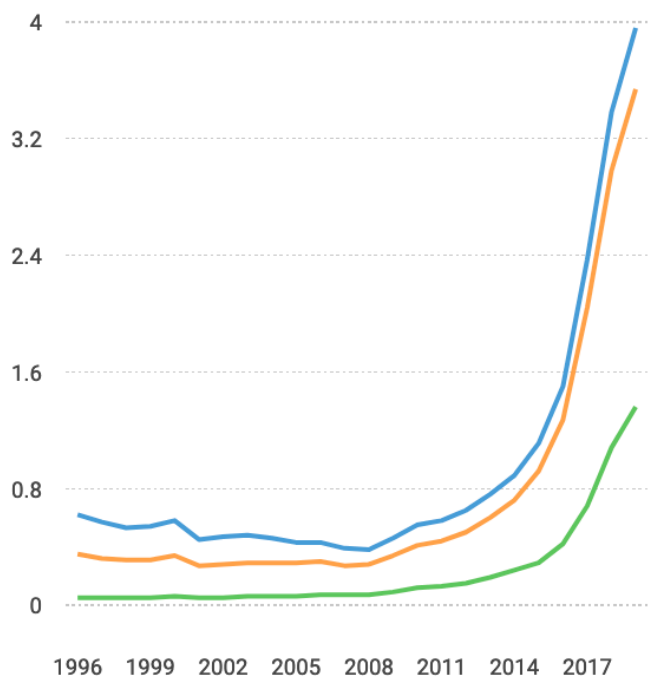
Sekarang kita bandingkan dengan kondisi
pada beberapa subject area

Agricultural and biological sciences

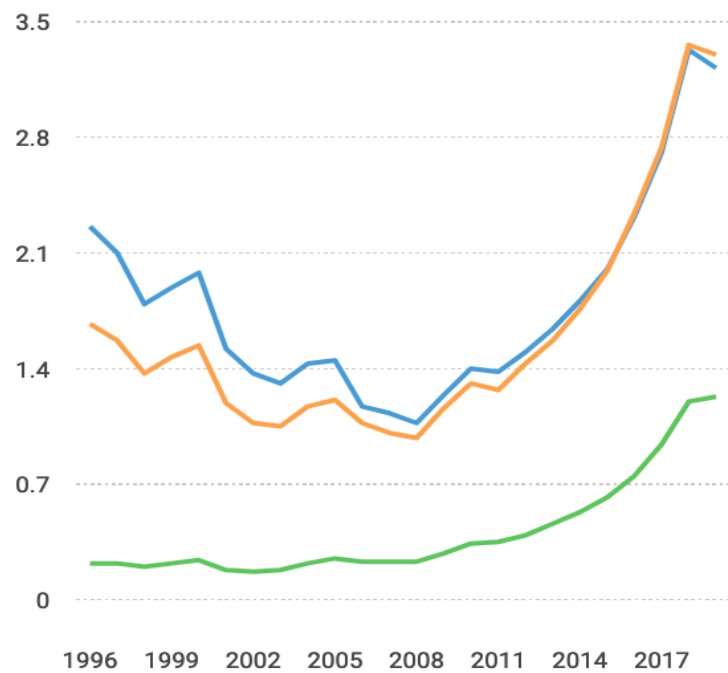
Citations



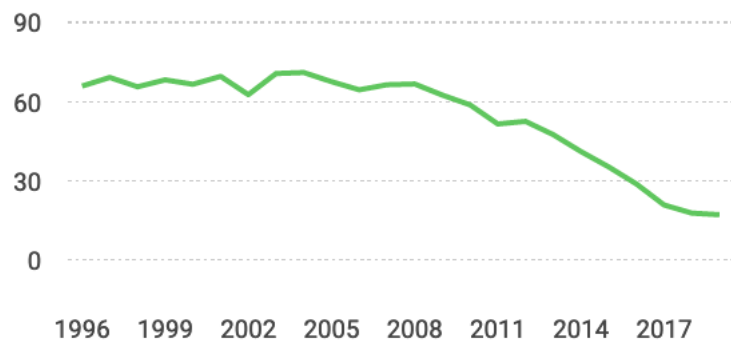
Output:
● % of the World ● % of BRIICS
● % of Asiatic Region



Output:
● % of the World ● % of BRIICS
● % of Asiatic Region



● % International Collaboration

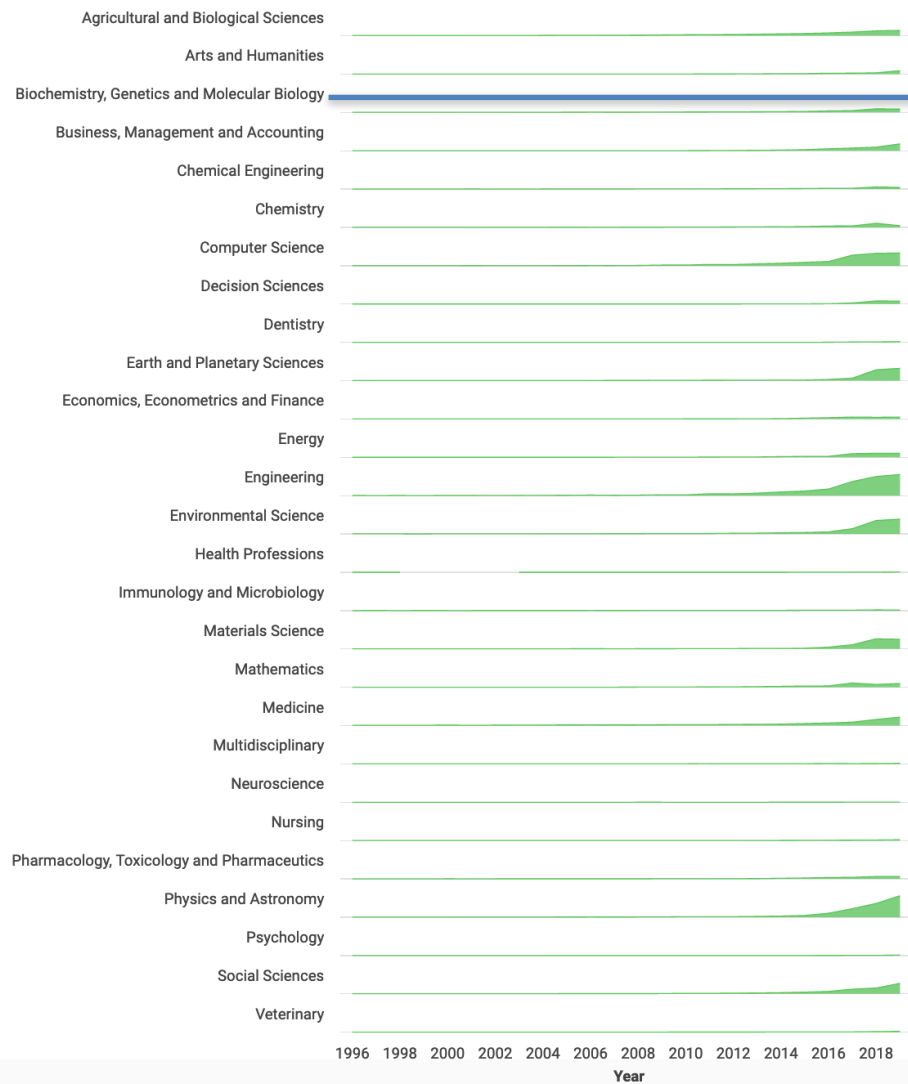


● % International Collaboration

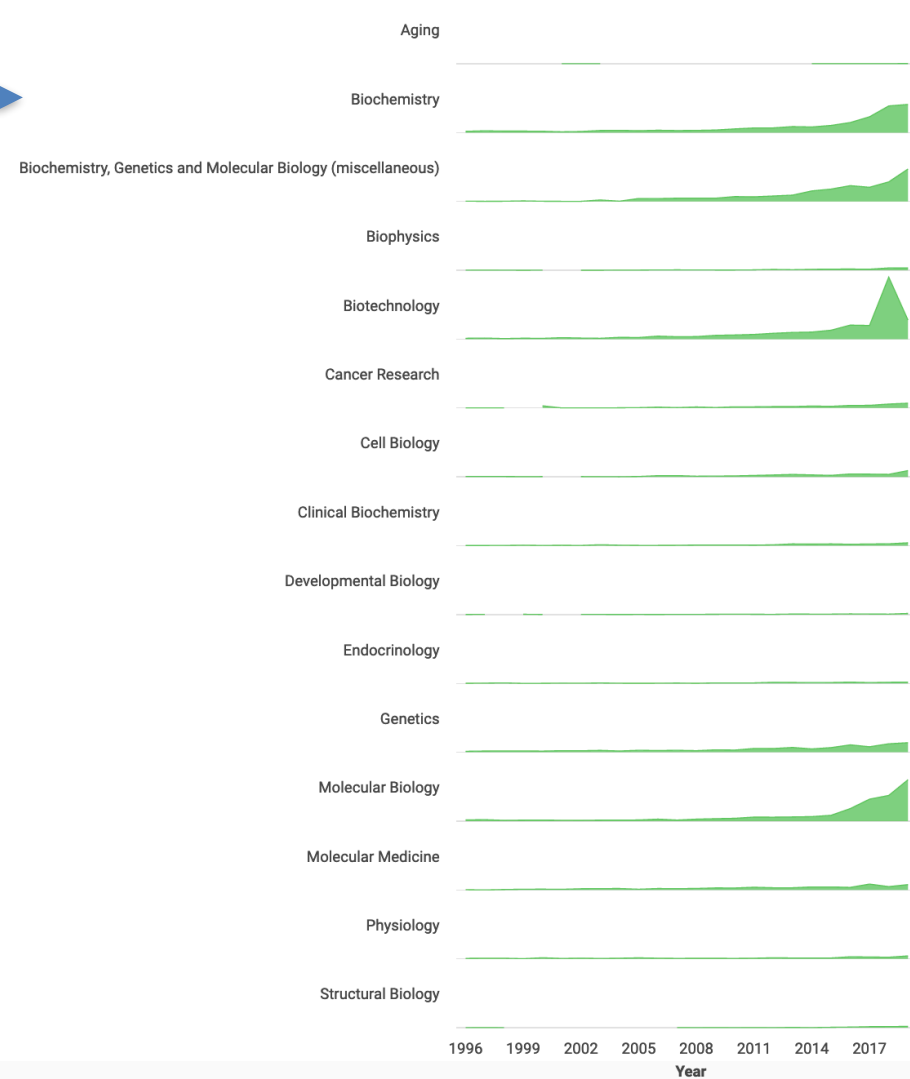


Biochemistry, genetics, and molecular biology

Documents by subject areas

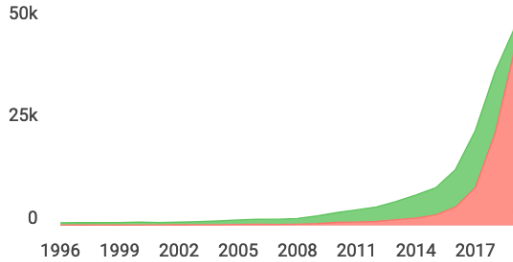


Documents by subject categories

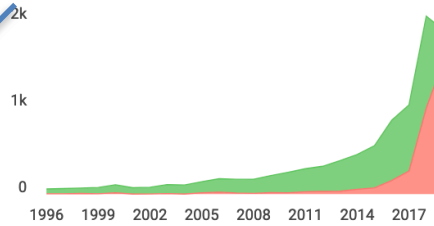


Citations

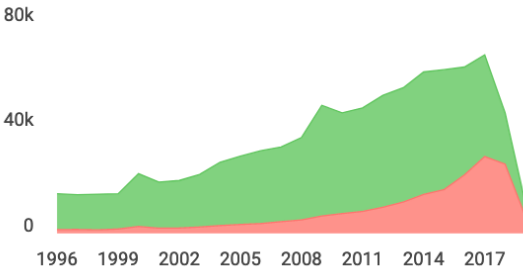
● Cited documents ● Uncited documents



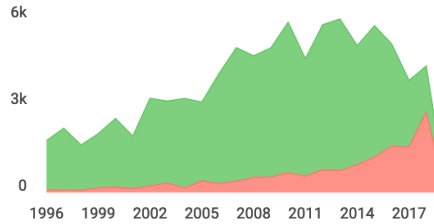
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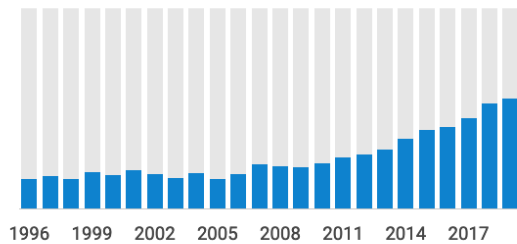
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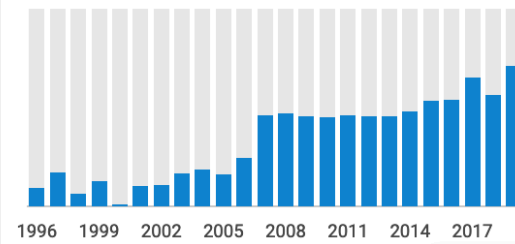
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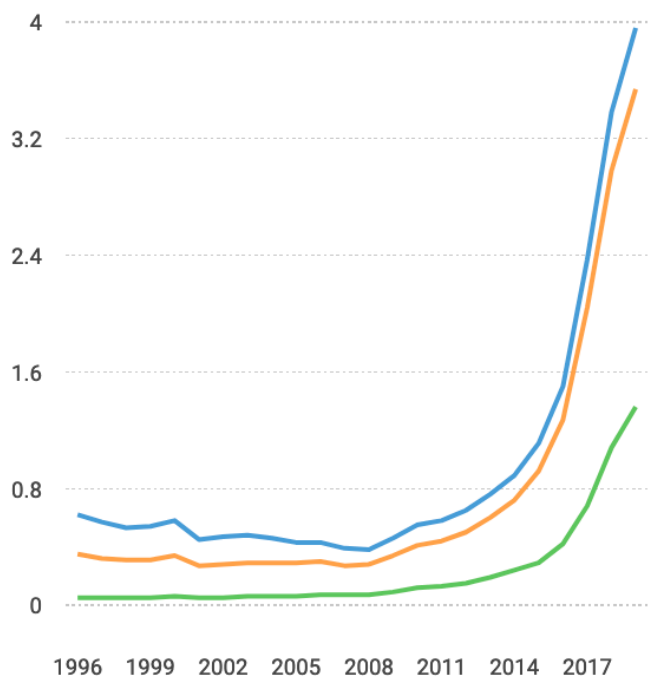
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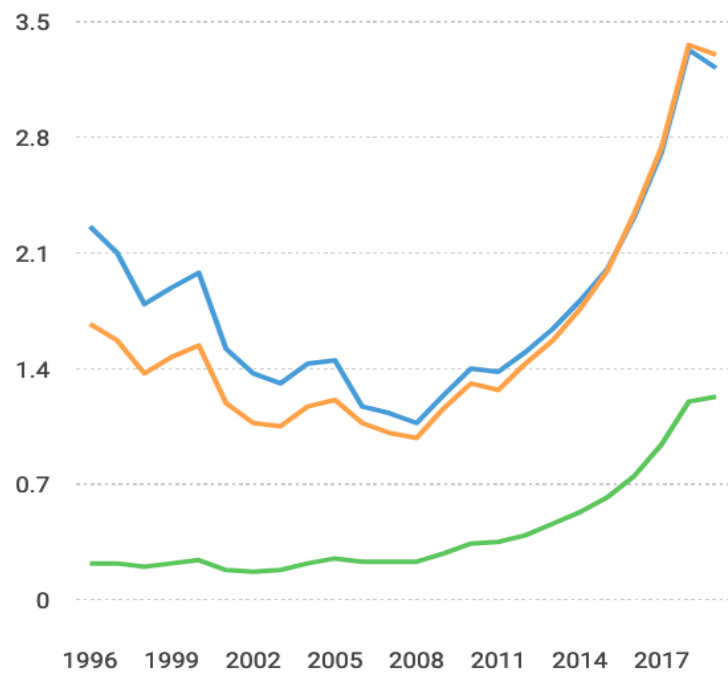
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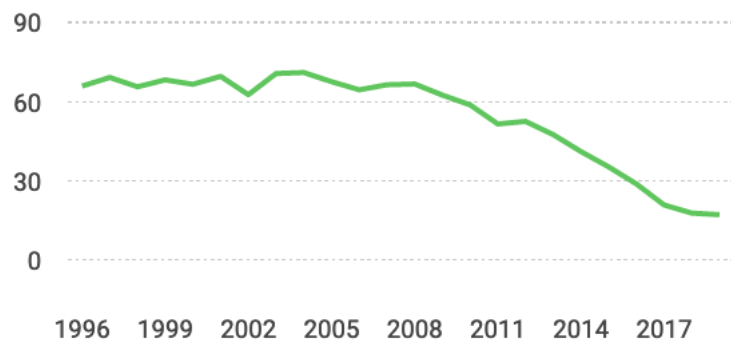
Output:
● % of the World ● % of BRIICS
● % of Asiatic Region



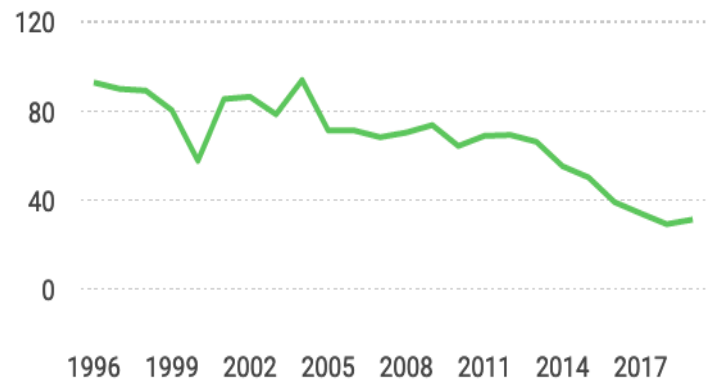
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● % International Collaboration

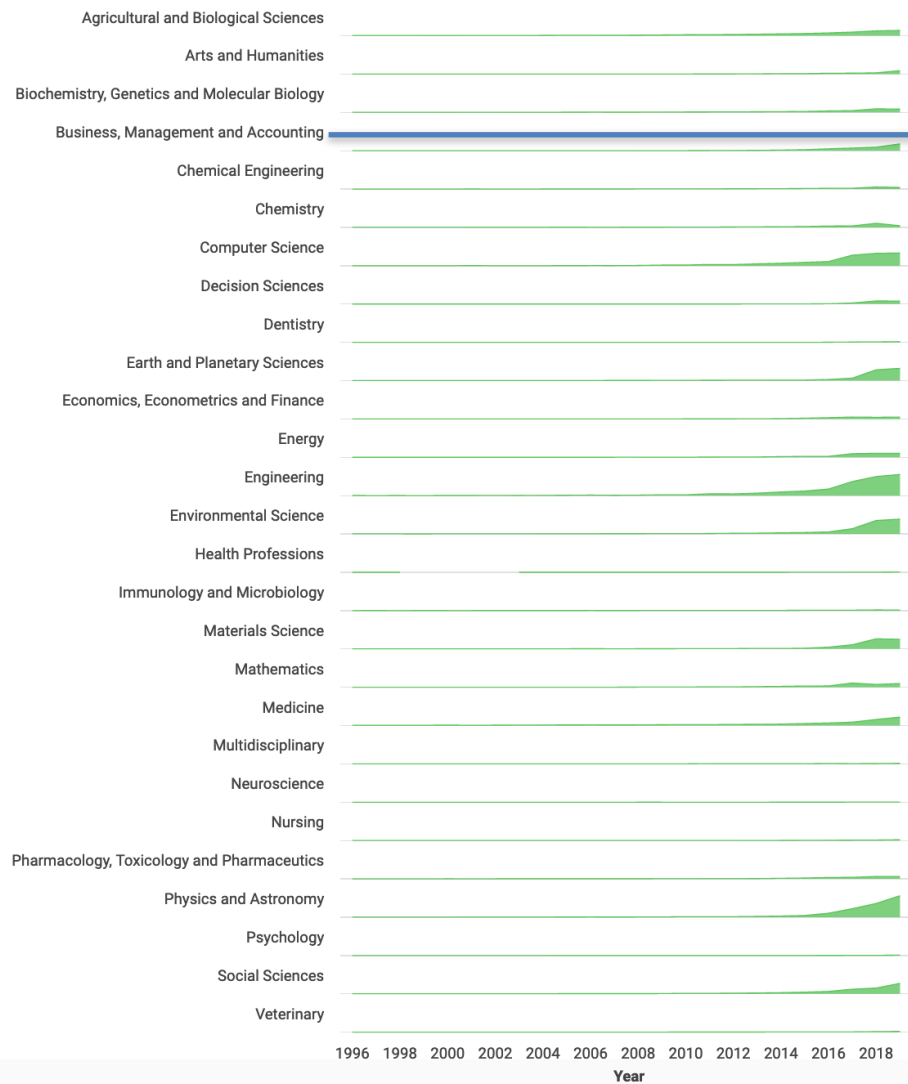


● % International Collaboration

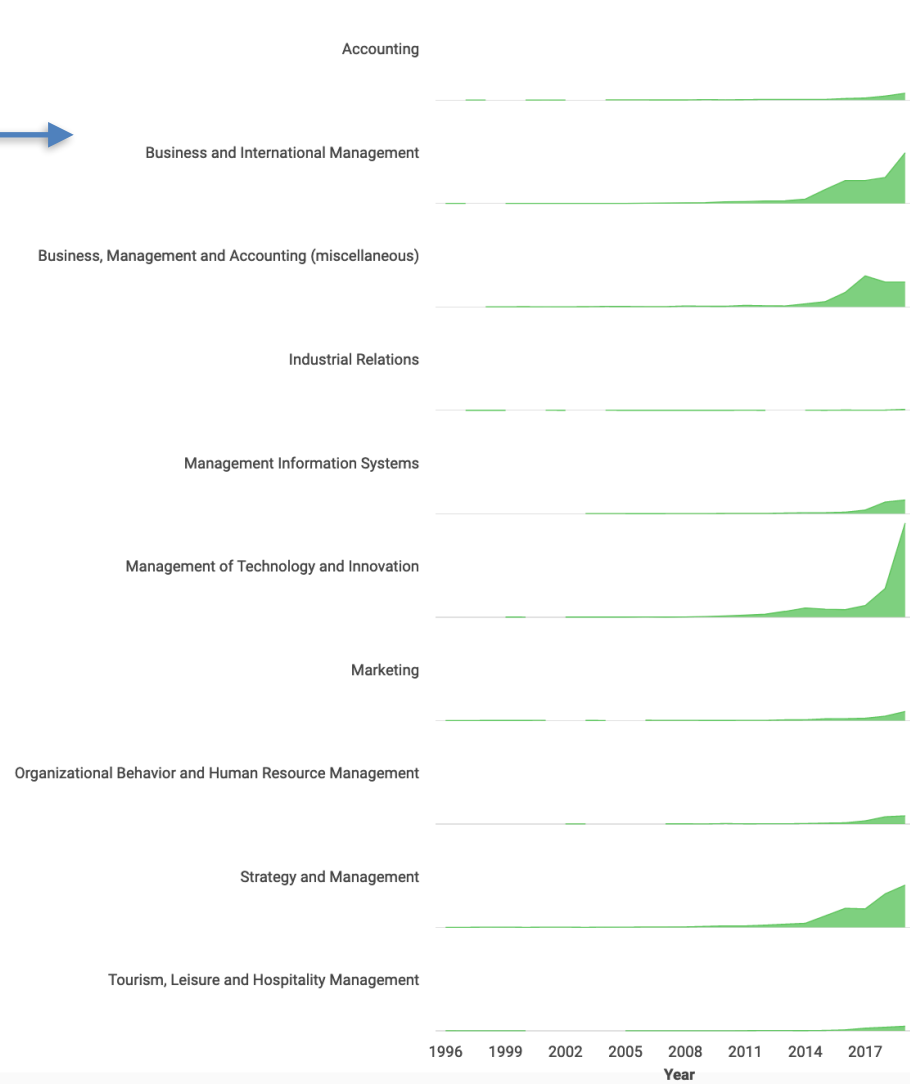


Business, management, accounting

Documents by subject areas

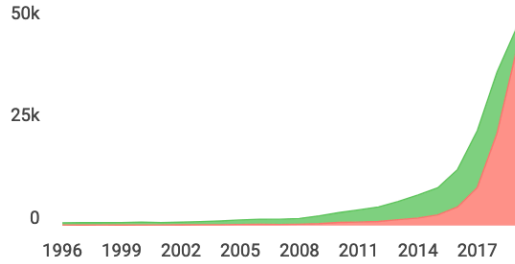


Documents by subject categories

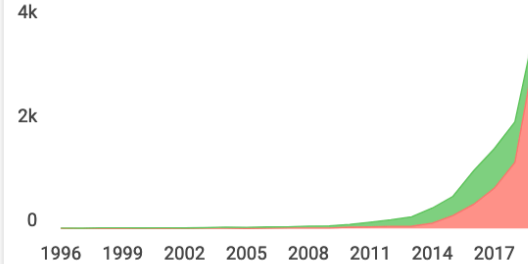


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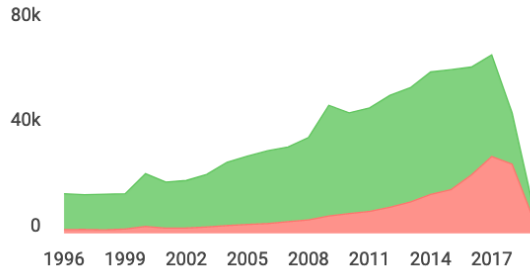
● Cited documents ● Uncited documents



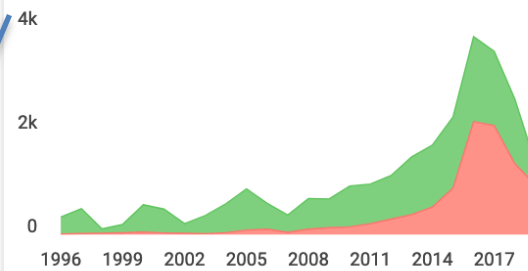
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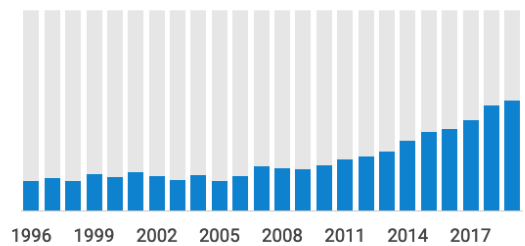
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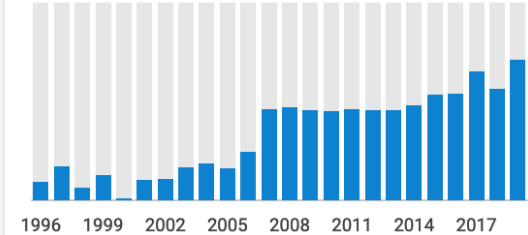
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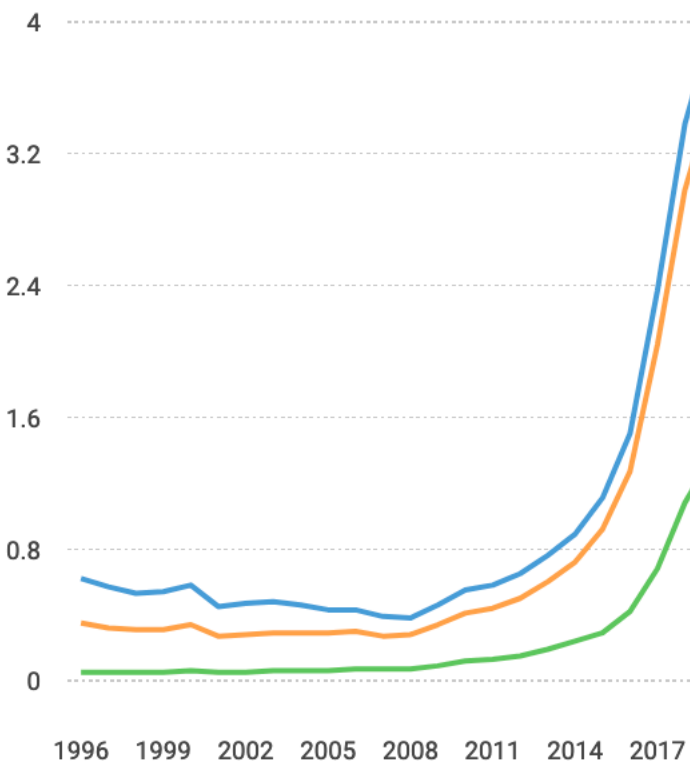


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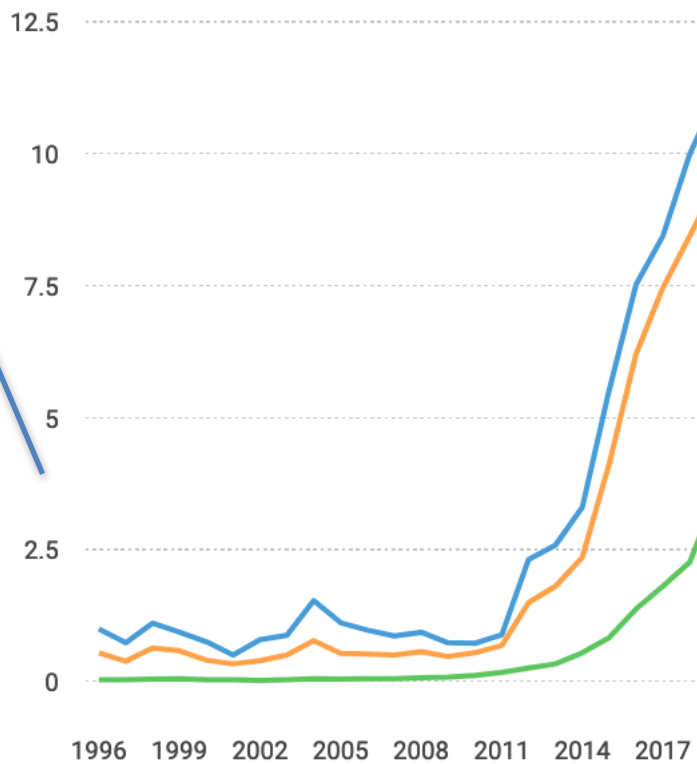
Output:

● % of the World ● % of BRIICS
● % of Asiatic Region

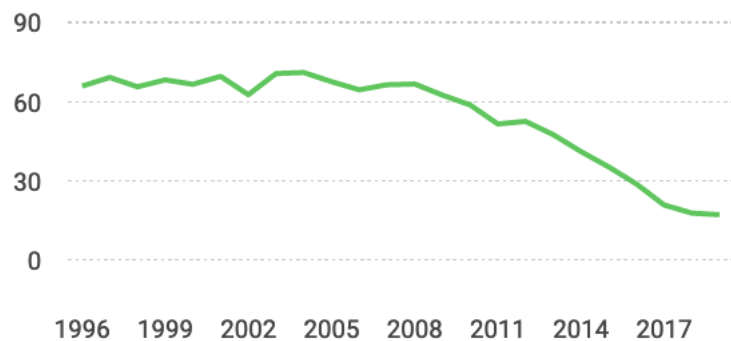


Output:

● % of the World ● % of BRIICS
● % of Asiatic Region



● % International Collaboration

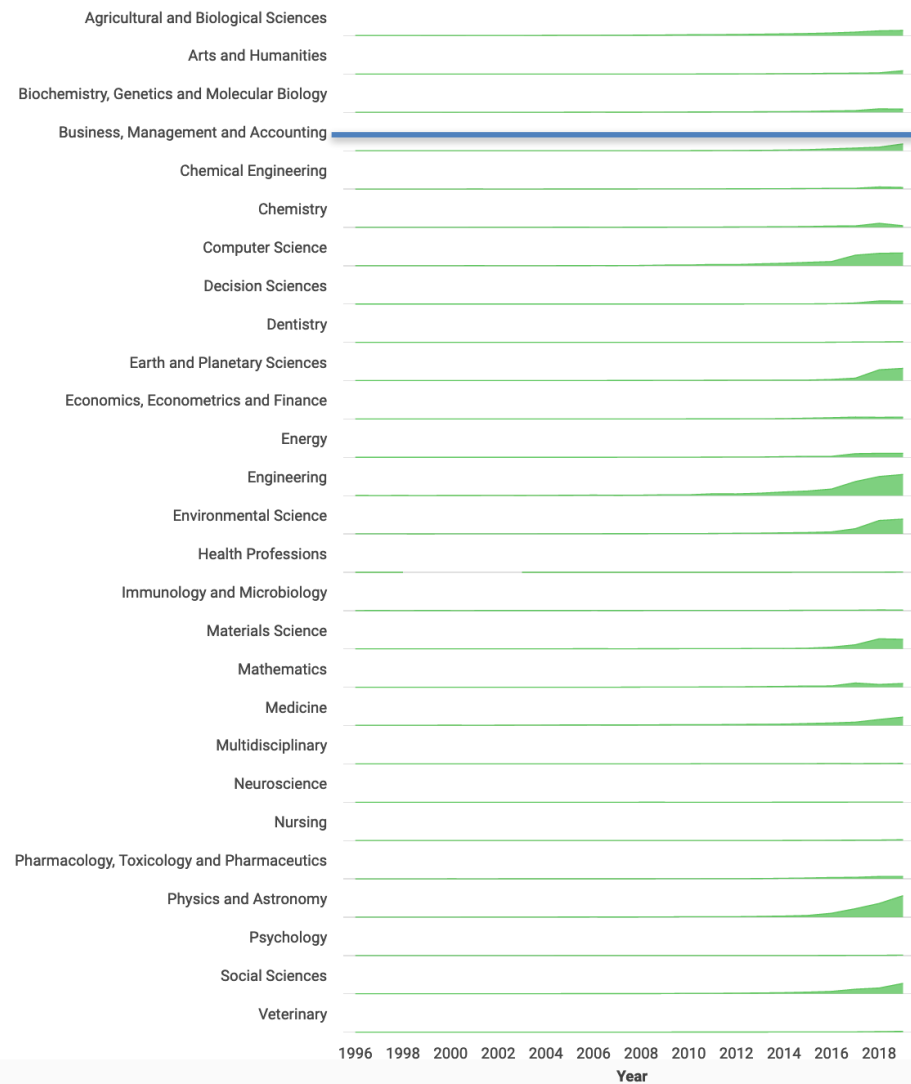


● % International Collaboration

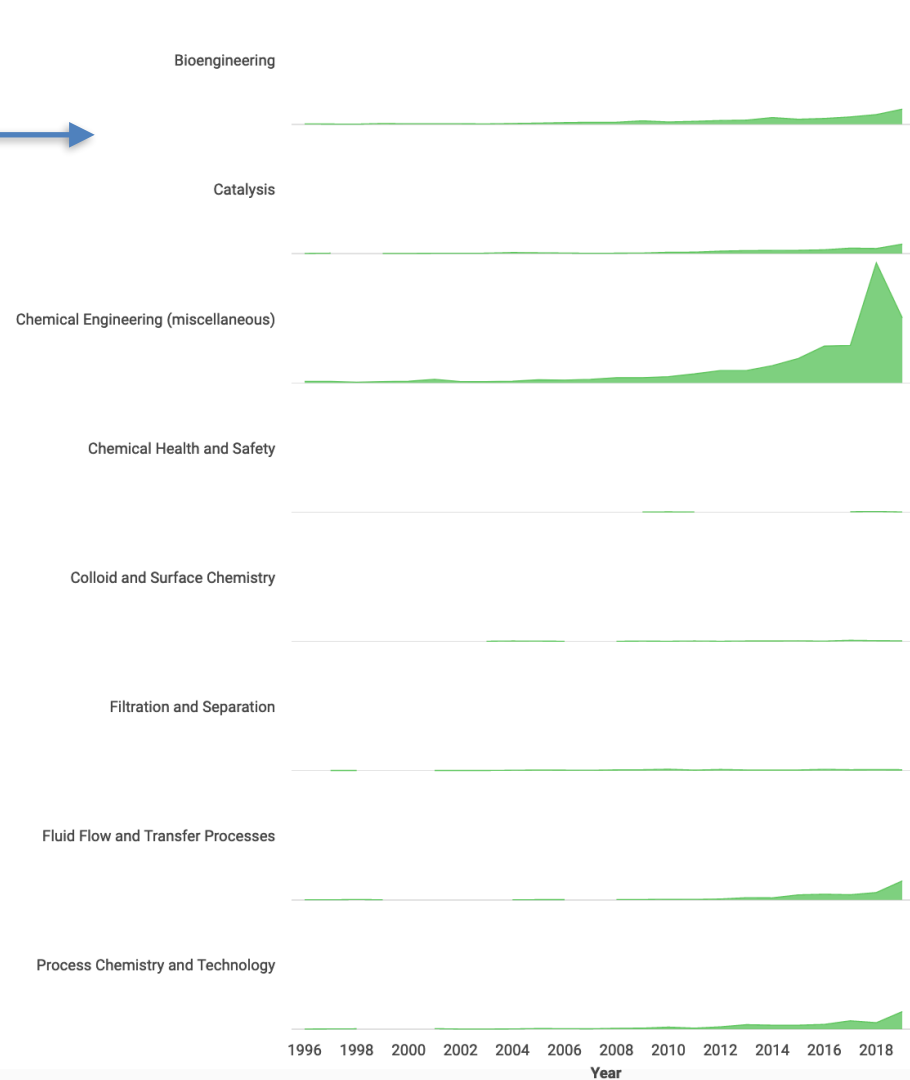


Chemical engineering

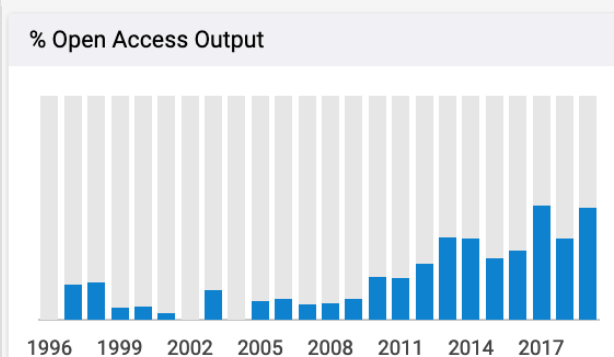
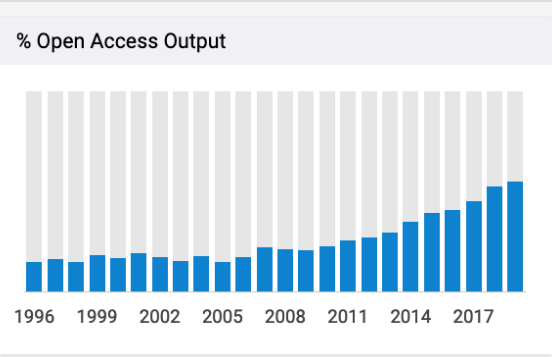
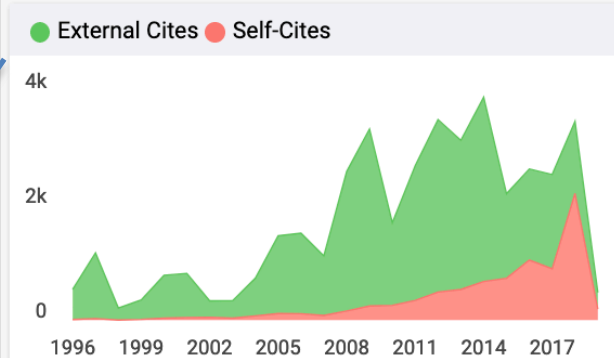
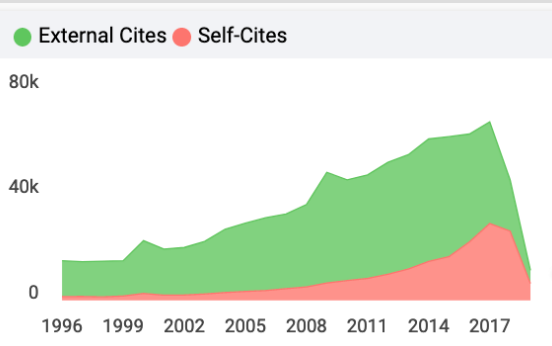
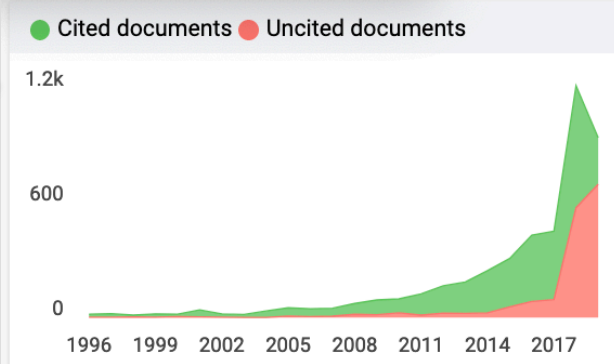
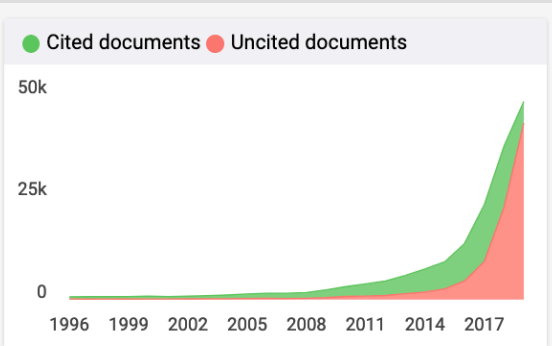
Documents by subject areas



Documents by subject categories

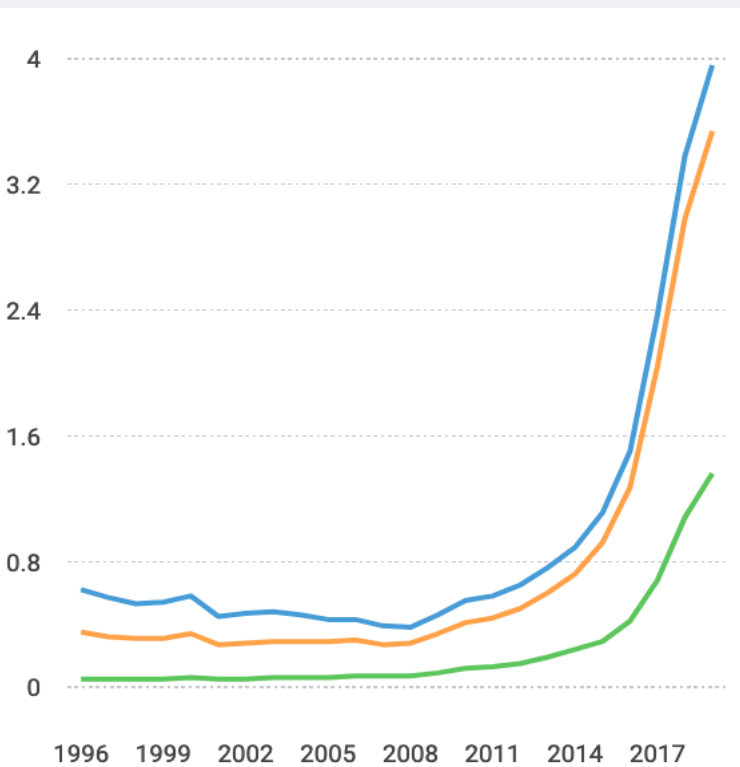


Citations



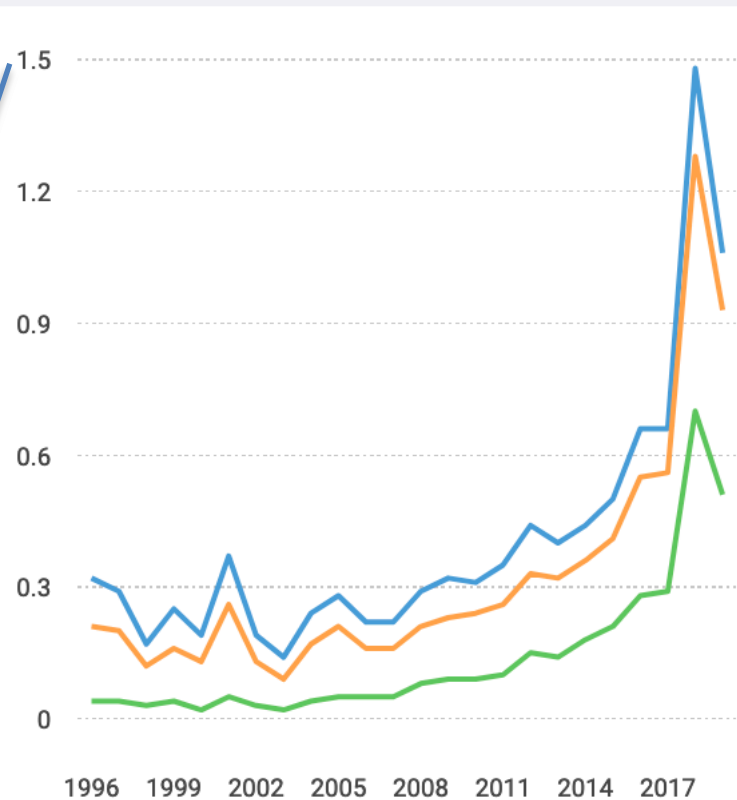
Output:

● % of the World ● % of BRIICS
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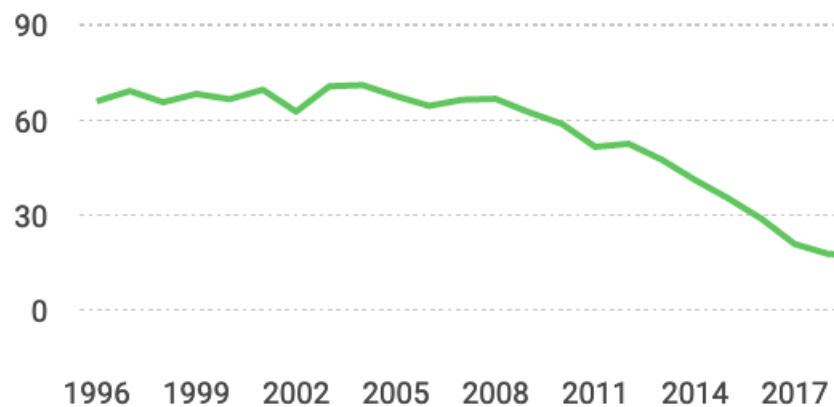


Output:

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● % International Collaboration

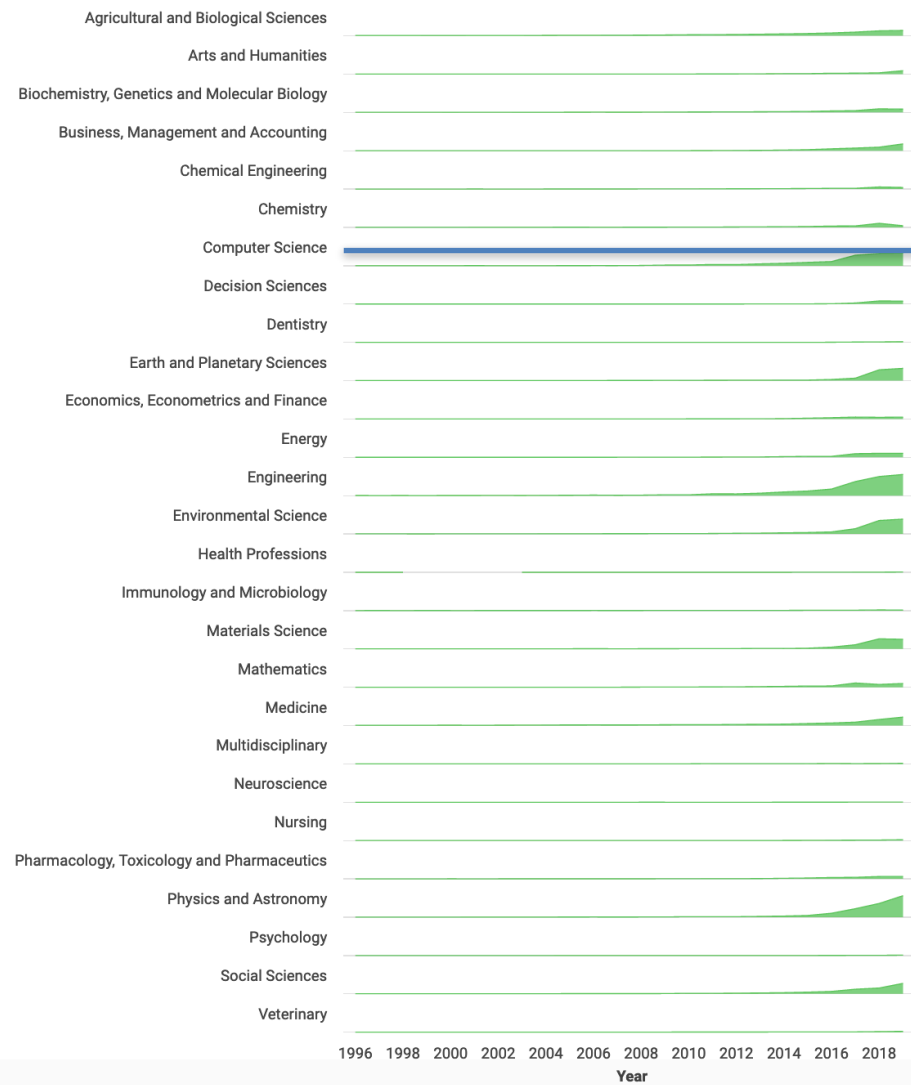


● % International Collaboration

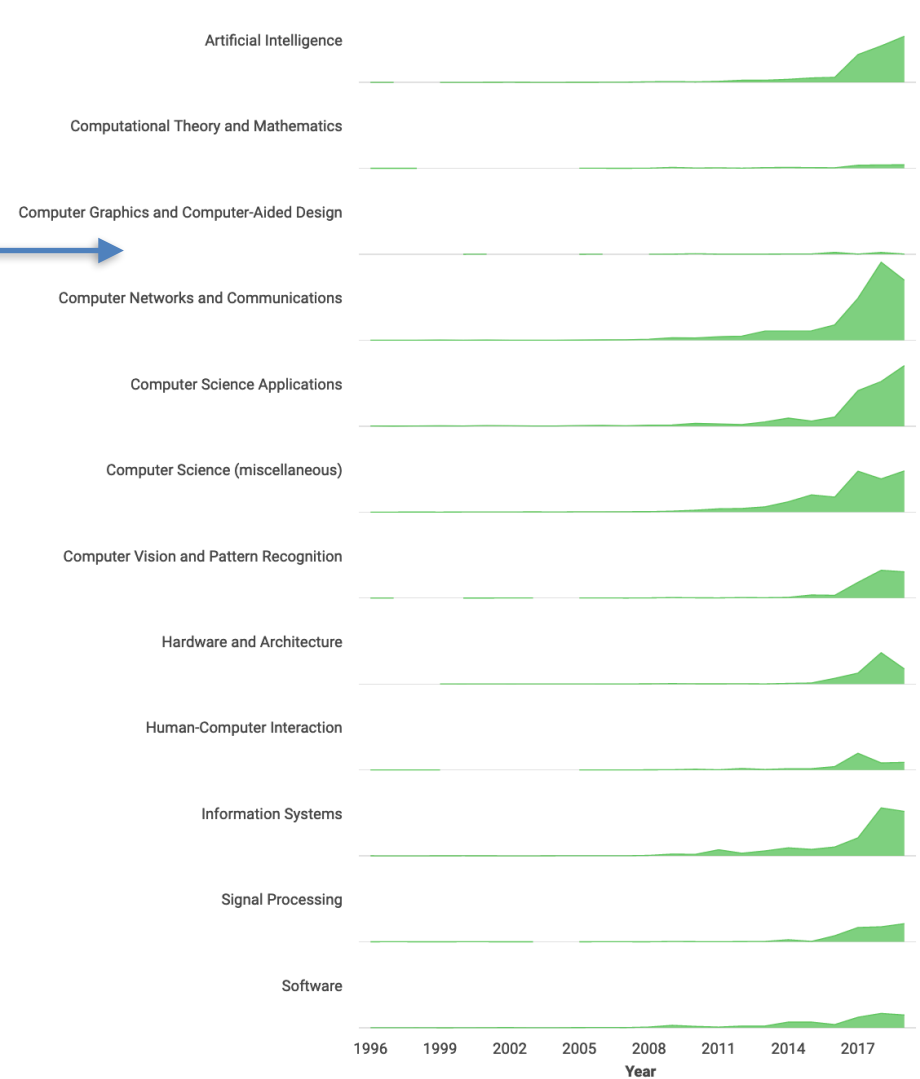


Computer sciences

Documents by subject areas

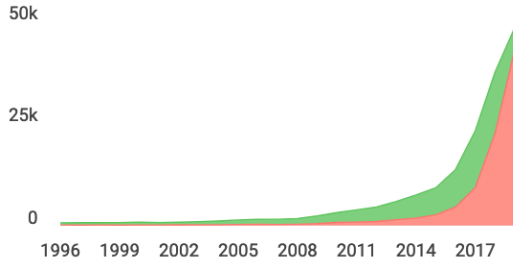


Documents by subject categories

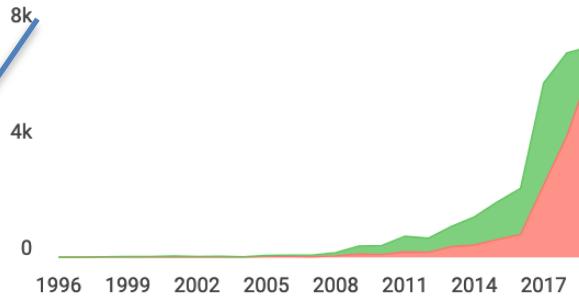


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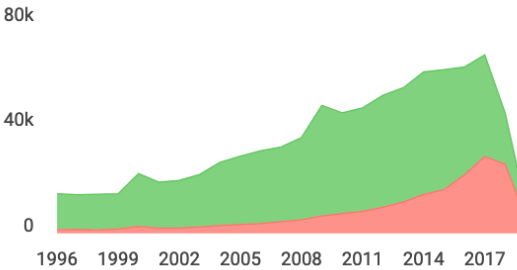
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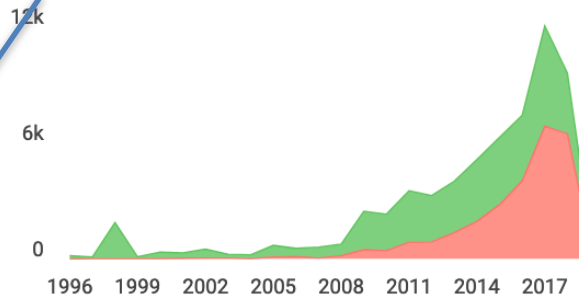
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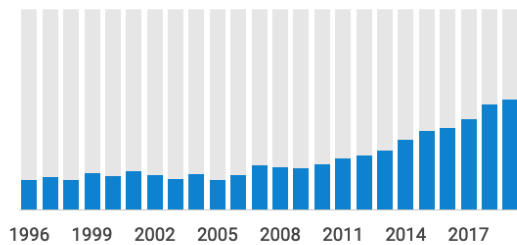
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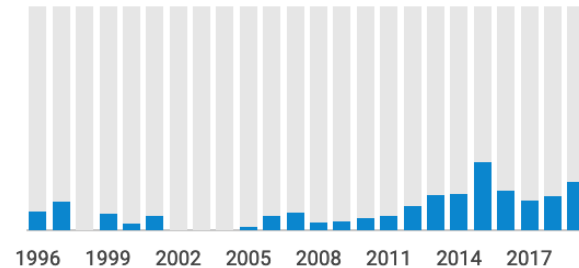
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% Open Access Output

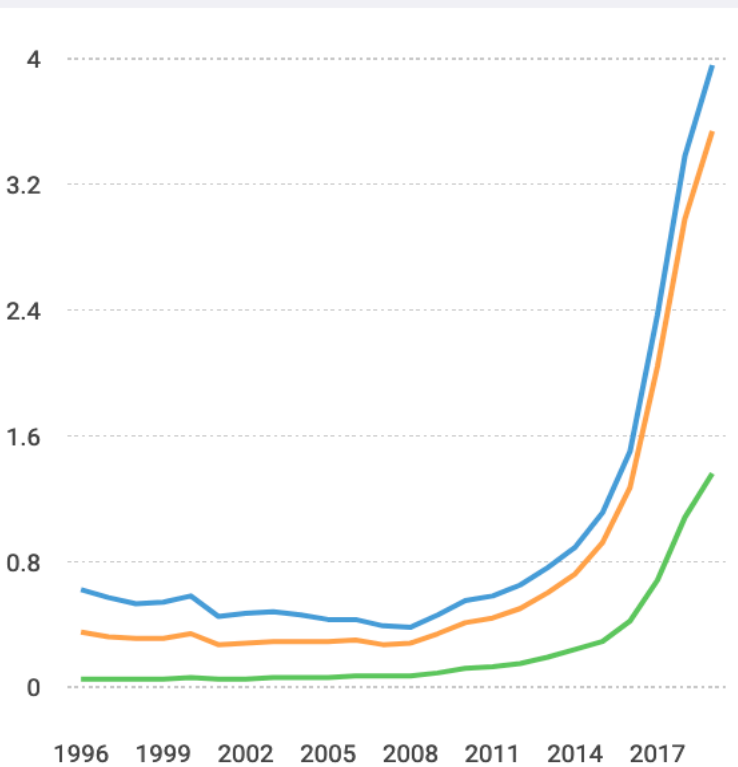


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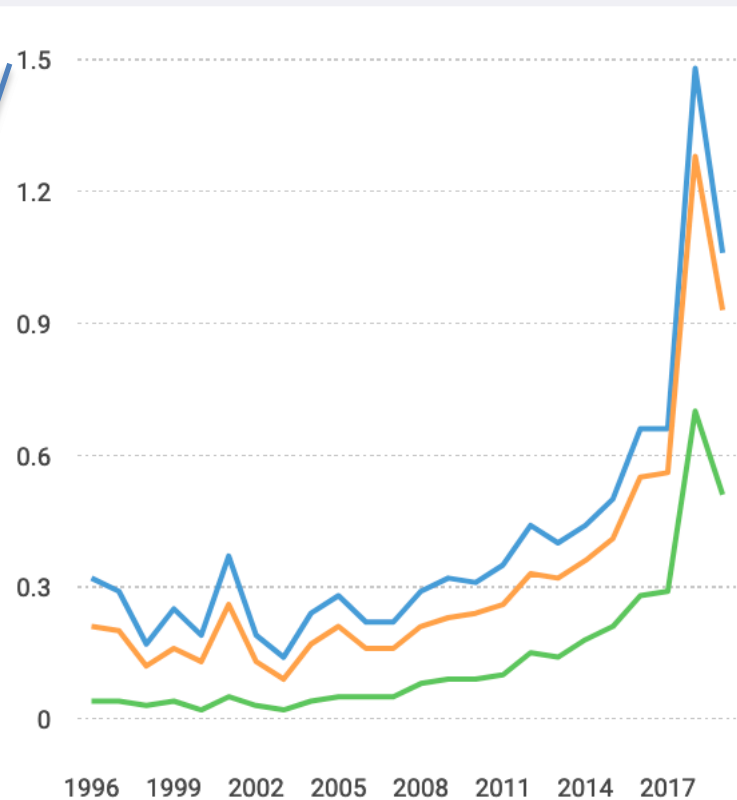
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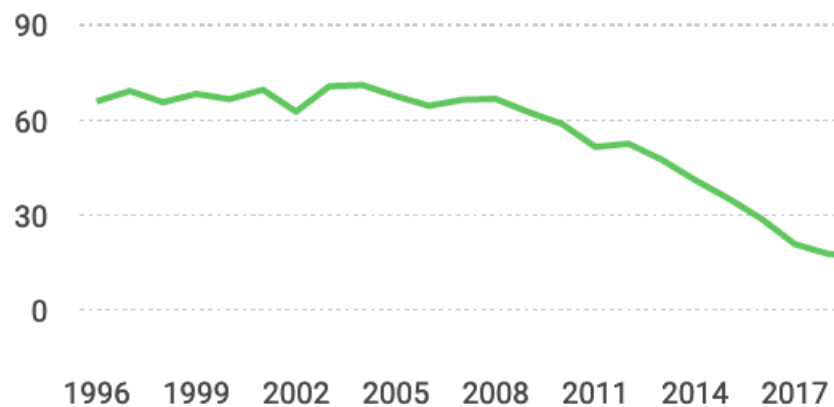


Output:

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● % International Collaboration

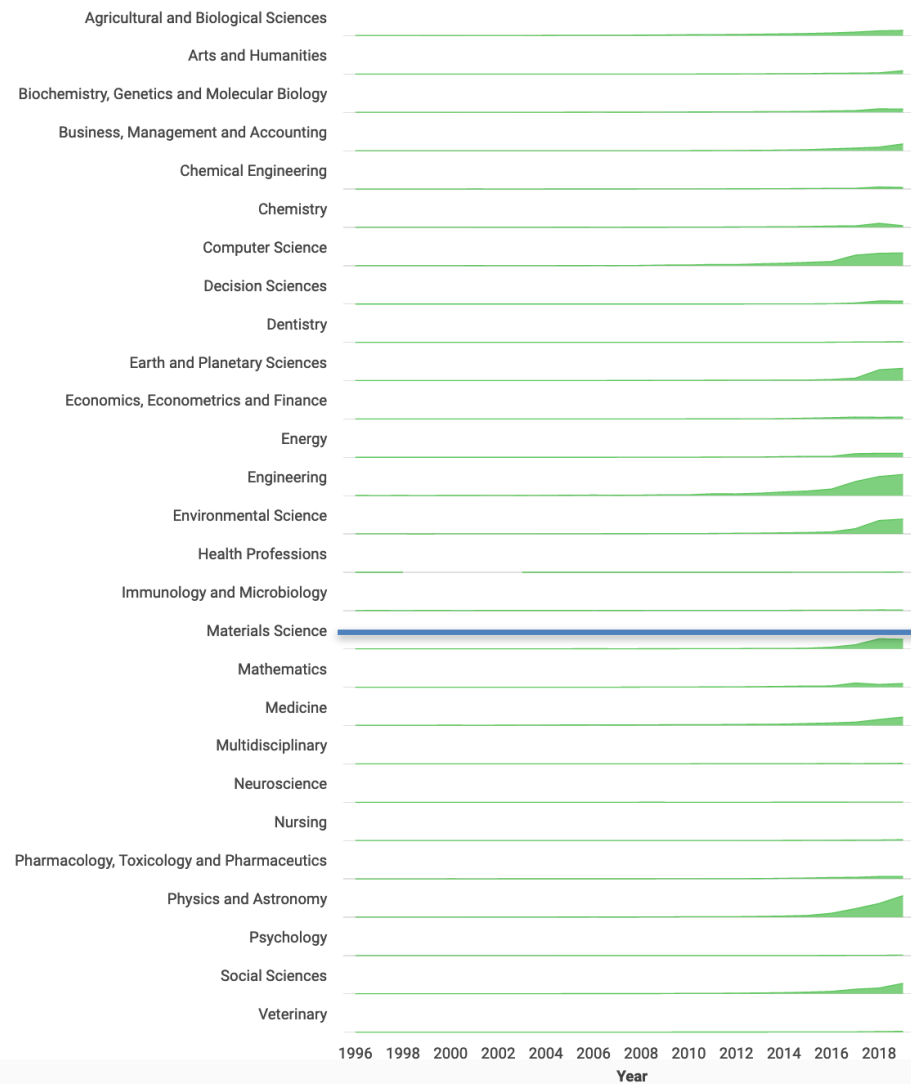


● % International Collaboration

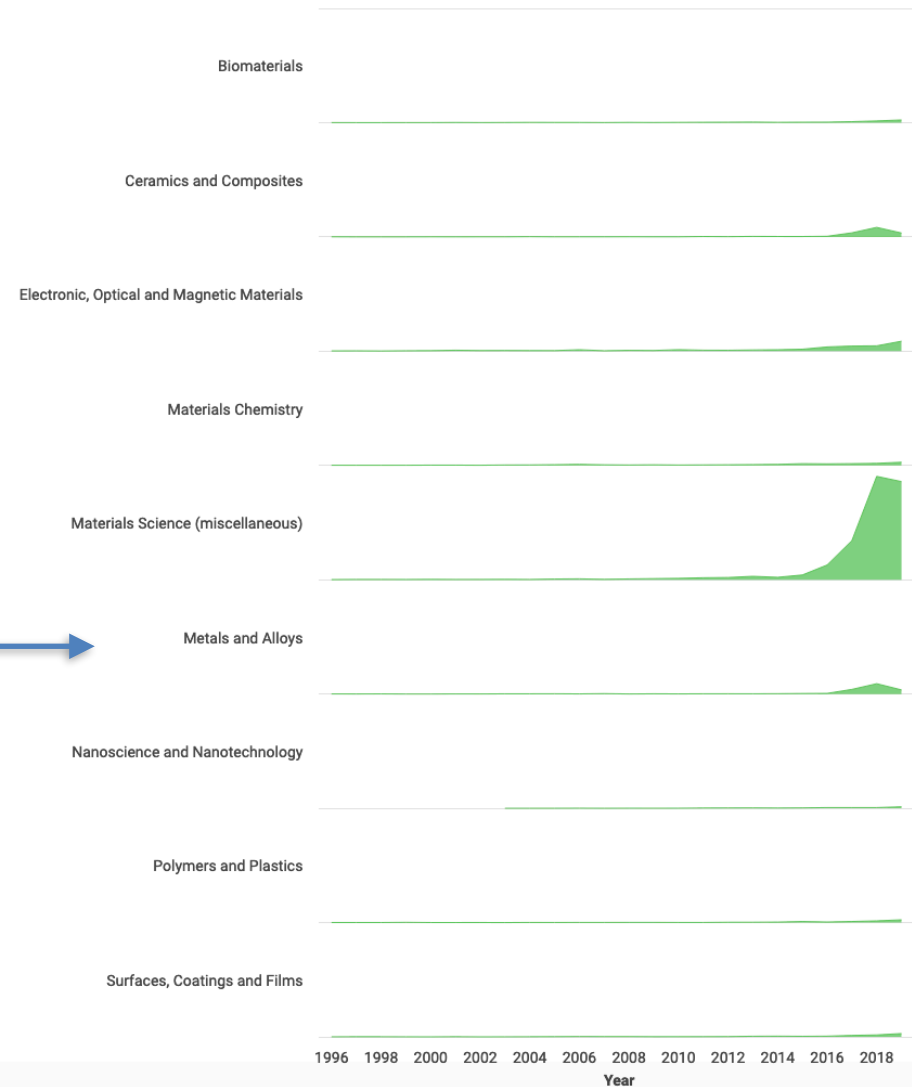


Material sciences

Documents by subject areas

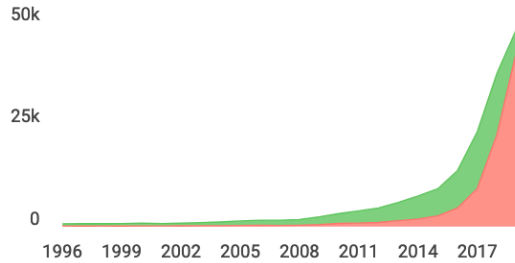


Documents by subject categories

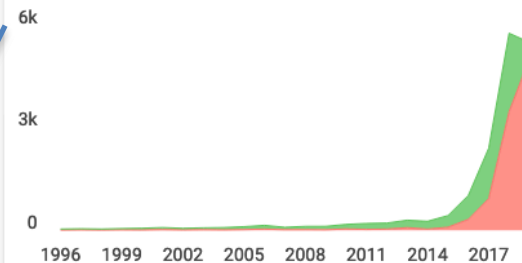


Citations

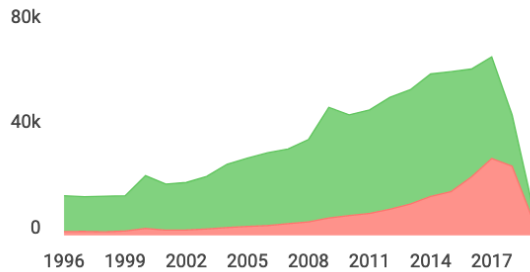
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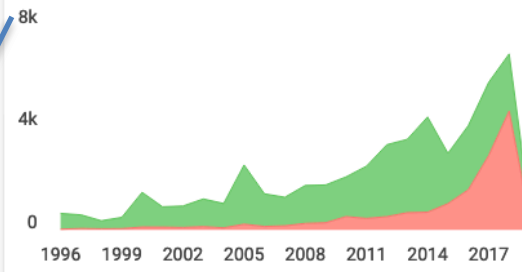
● Cited documents ● Uncited documents



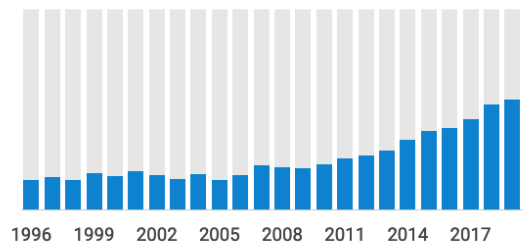
● External Cites ● Self-Cites



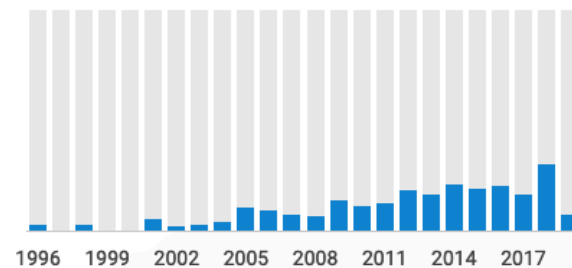
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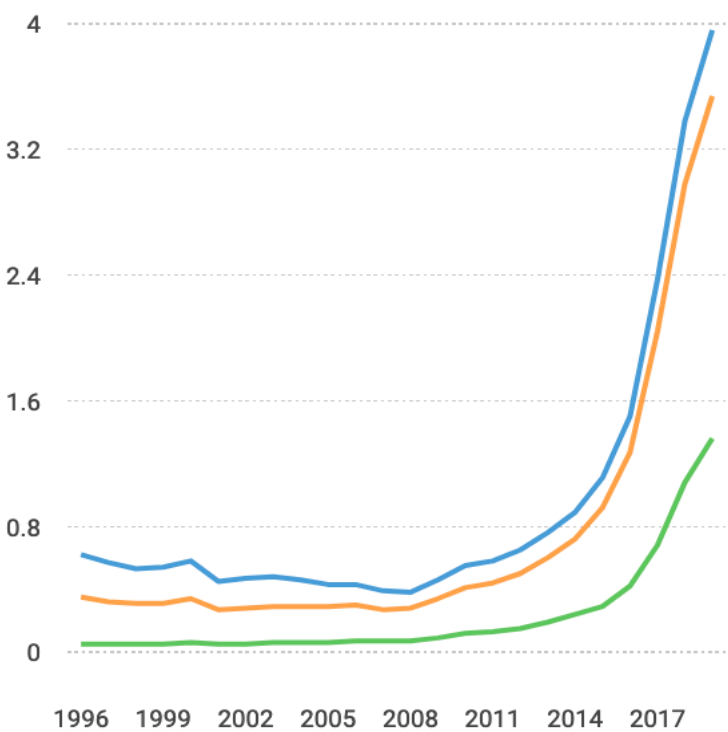


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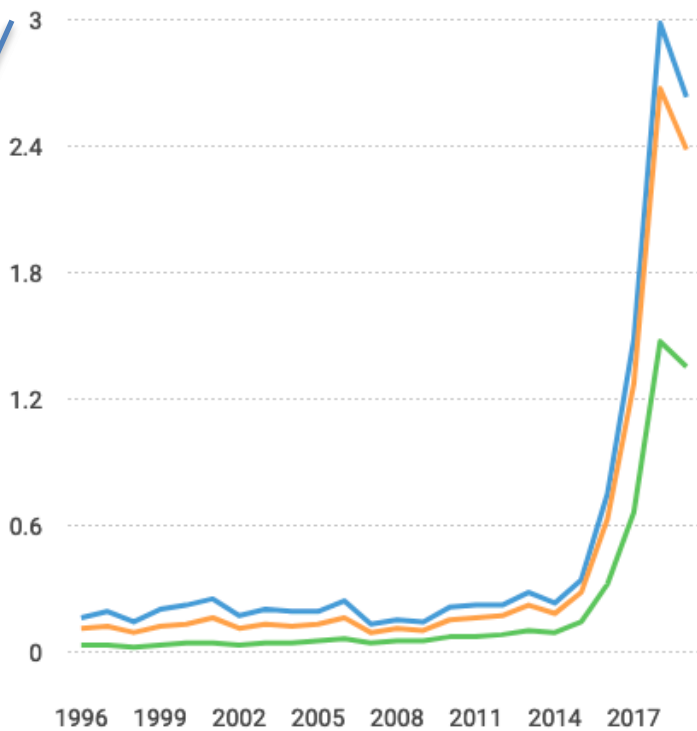
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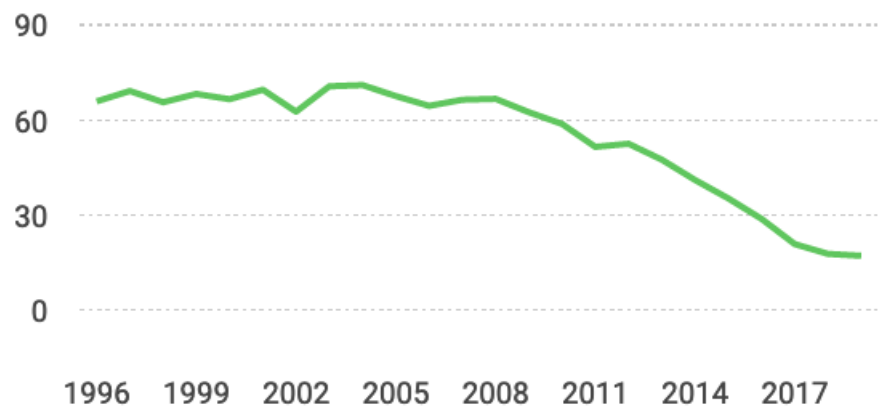


Output:

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● % International Collaboration

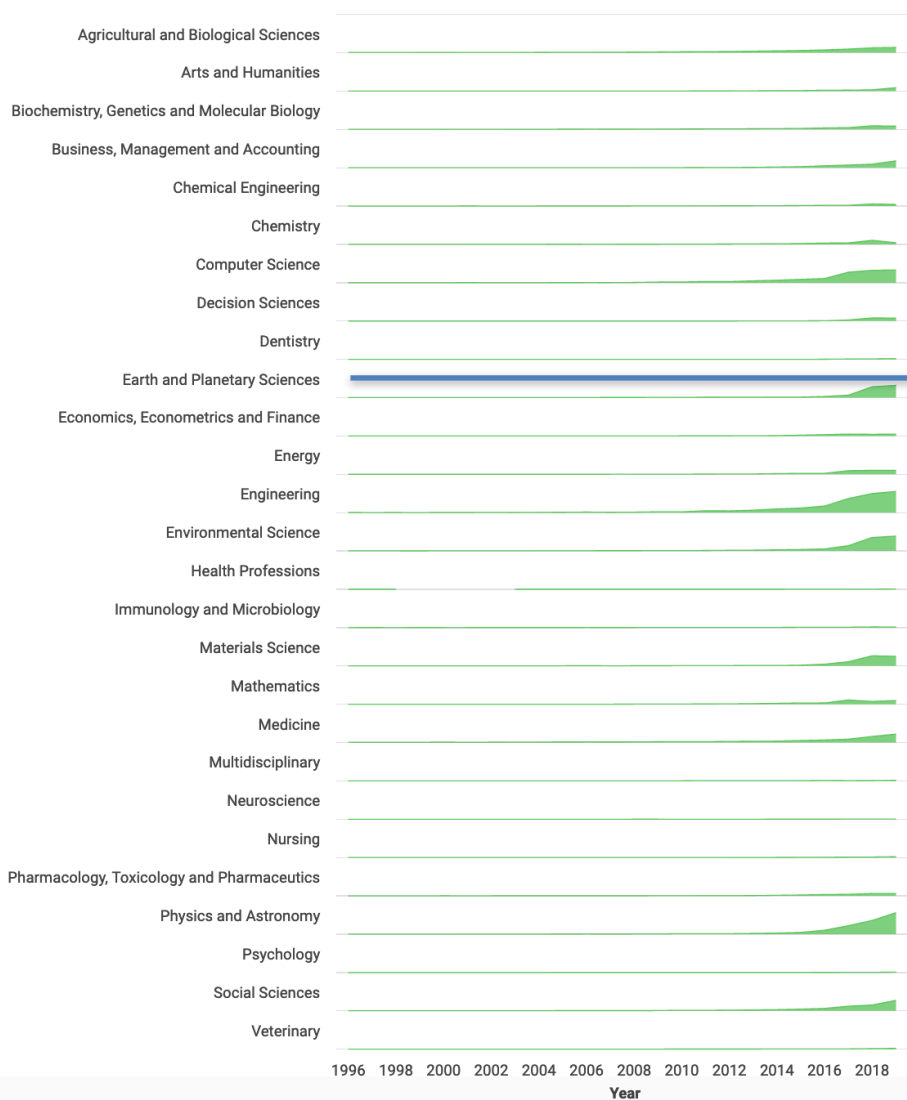


● % International Collaboration



Earth and planetary science

Documents by subject areas

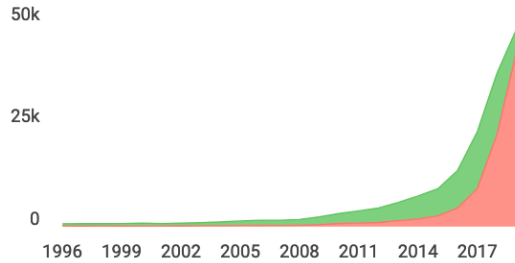


Documents by subject categories

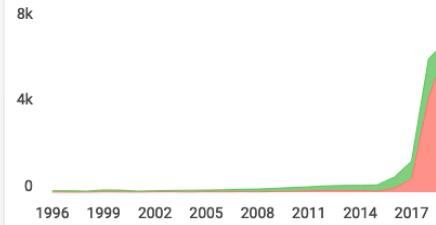


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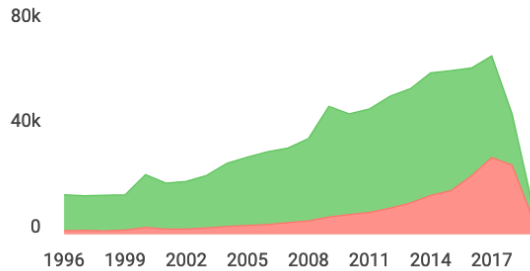
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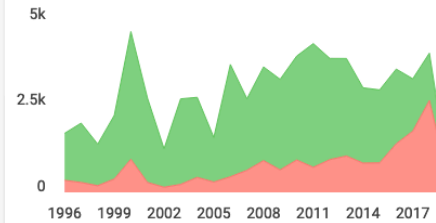
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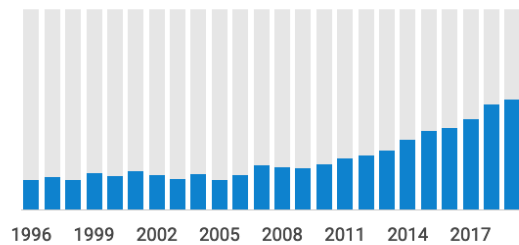
● External Cites ● Self-Cites



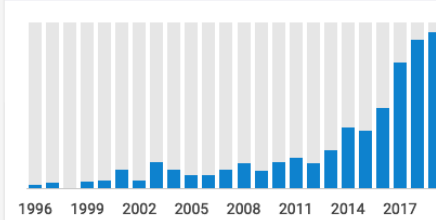
● External Cites ● Self-Cites



% Open Access Output

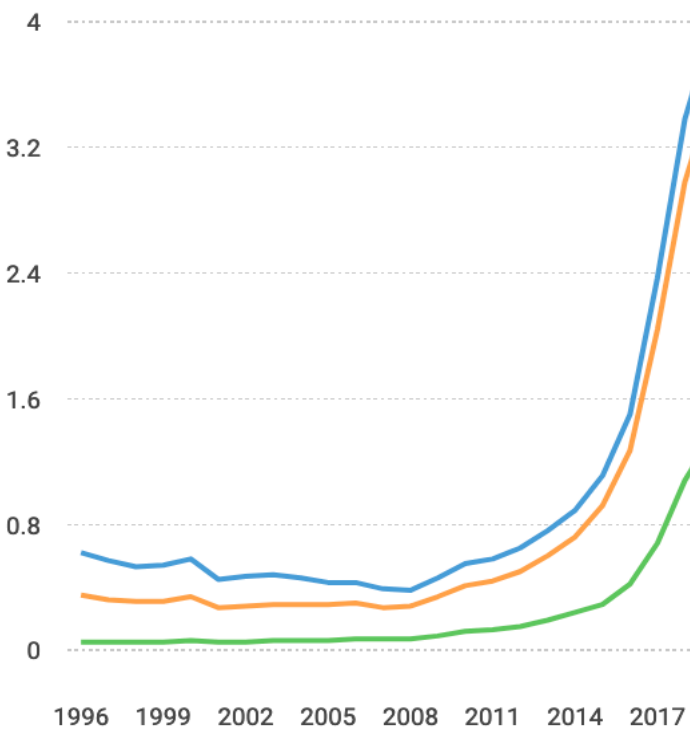


% Open Access Output



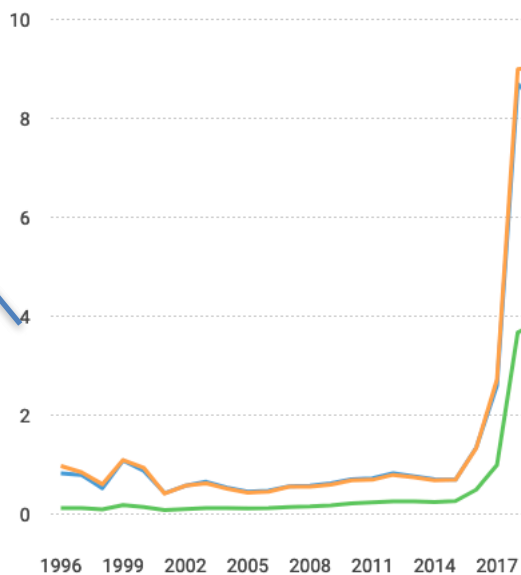
Output:

● % of the World ● % of BRIICS
● % of Asiatic Region

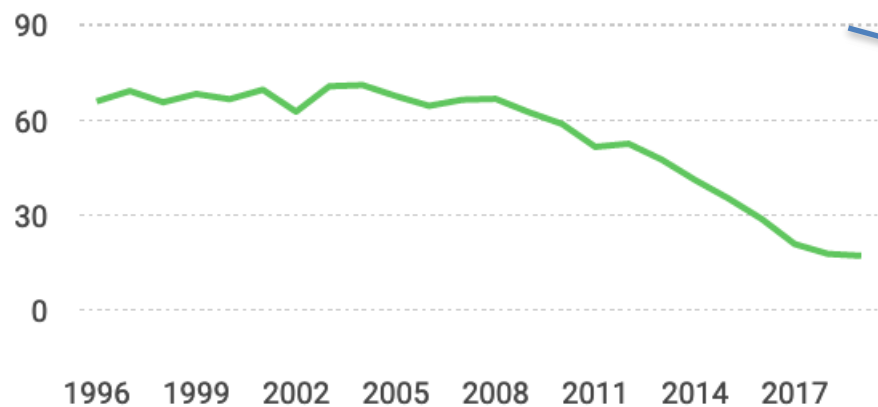


Output:

● % of the World ● % of BRIICS
● % of Asiatic Region



● % International Collaboration



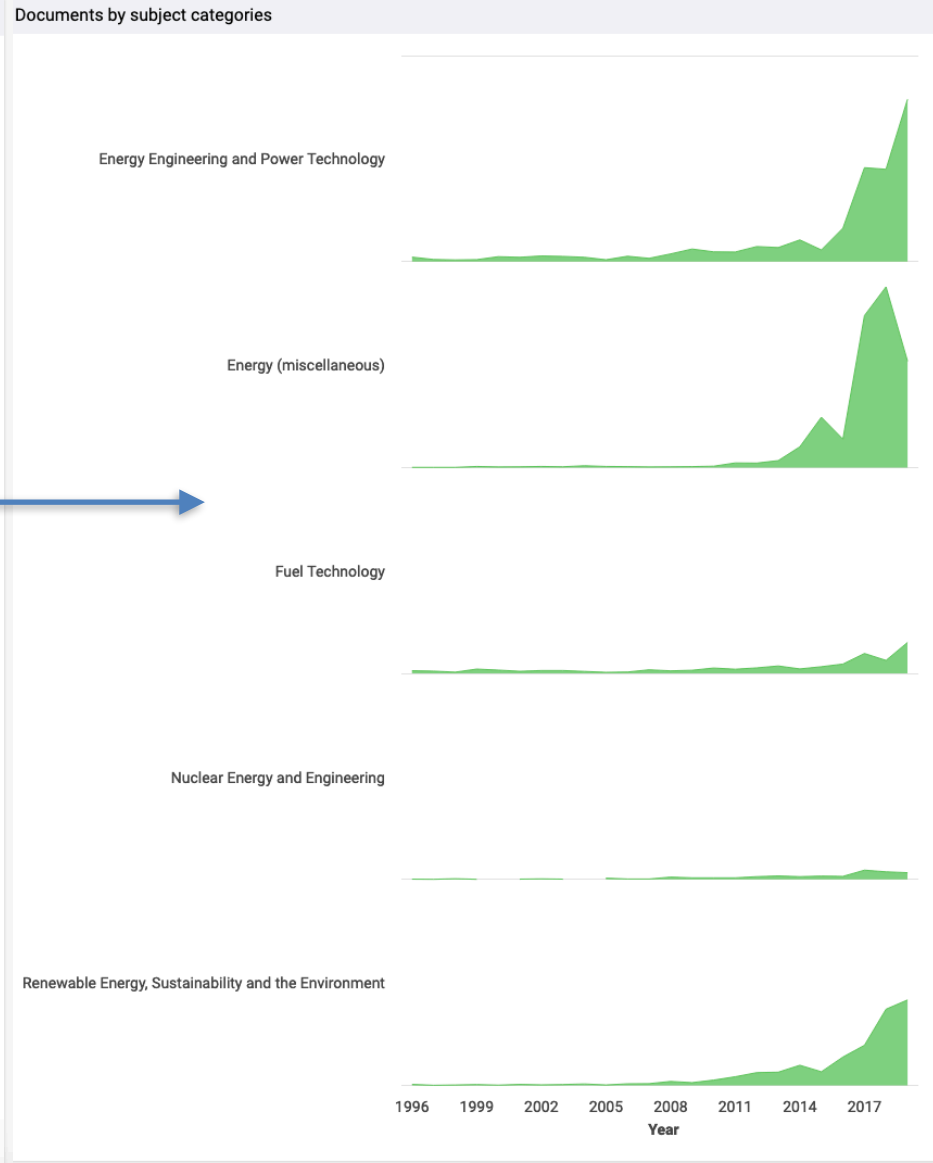
● % International Collaboration



Energy

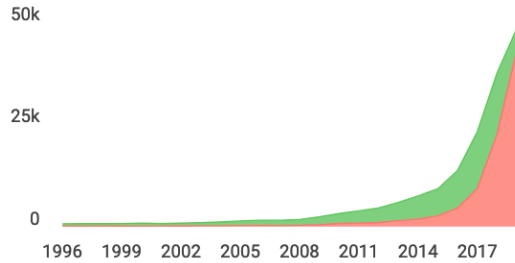
The chart displays the distribution of documents across 30 subject areas from 1996 to 2018. The x-axis represents the year, and the y-axis lists the subject areas. Each bar is composed of segments representing different categories, with a prominent blue segment in the 'Energy' category starting around 1996 and extending to 2018.

Subject Area	Approximate Document Count (1996-2018)
Agricultural and Biological Sciences	Low
Arts and Humanities	Low
Biochemistry, Genetics and Molecular Biology	Low
Business, Management and Accounting	Low
Chemical Engineering	Low
Chemistry	Low
Computer Science	Low
Decision Sciences	Low
Dentistry	Low
Earth and Planetary Sciences	Low
Economics, Econometrics and Finance	Low
Energy	High (Dominant)
Engineering	Low
Environmental Science	Low
Health Professions	Low
Immunology and Microbiology	Low
Materials Science	Low
Mathematics	Low
Medicine	Low
Multidisciplinary	Low
Neuroscience	Low
Nursing	Low
Pharmacology, Toxicology and Pharmaceuticals	Low
Physics and Astronomy	Low
Psychology	Low
Social Sciences	Low
Veterinary	Low

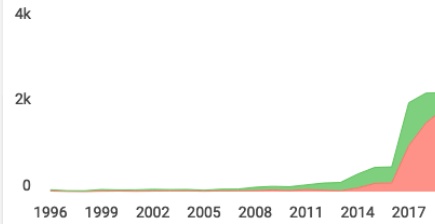


Citations

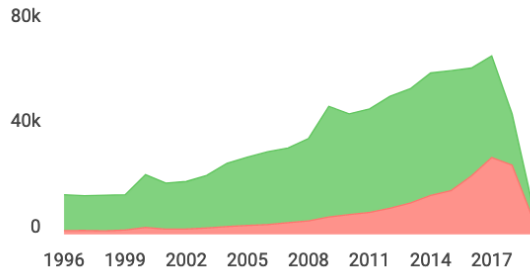
● Cited documents ● Uncited documents



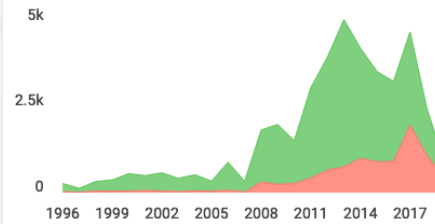
● Cited documents ● Uncited documents



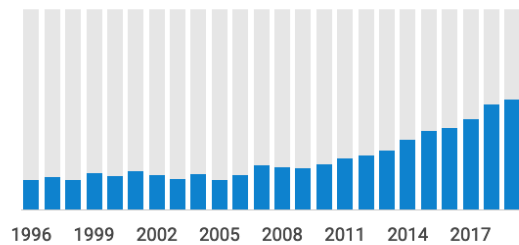
● External Cites ● Self-Cites



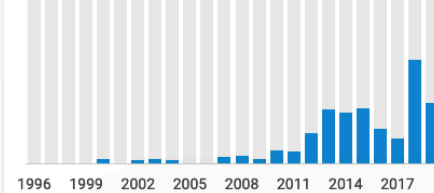
● External Cites ● Self-Cites



% Open Access Output

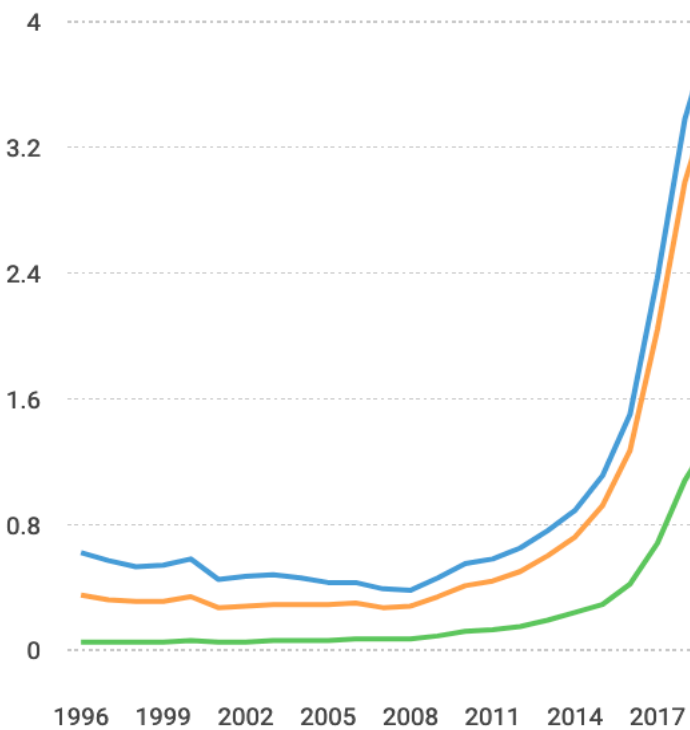


% Open Access Output



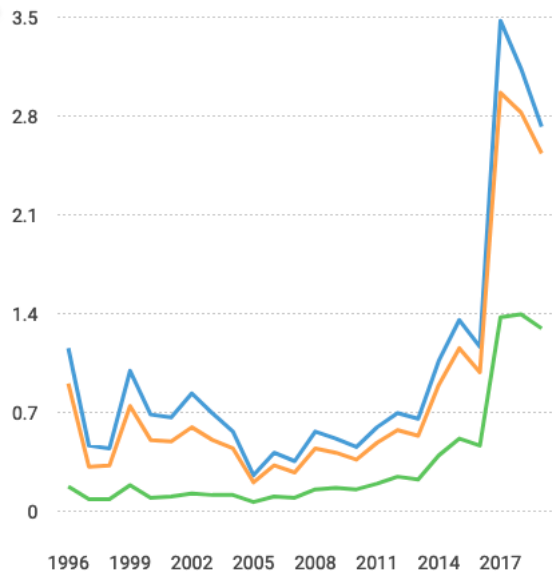
Output:

● % of the World ● % of BRIICS
● % of Asiatic Region



Output:

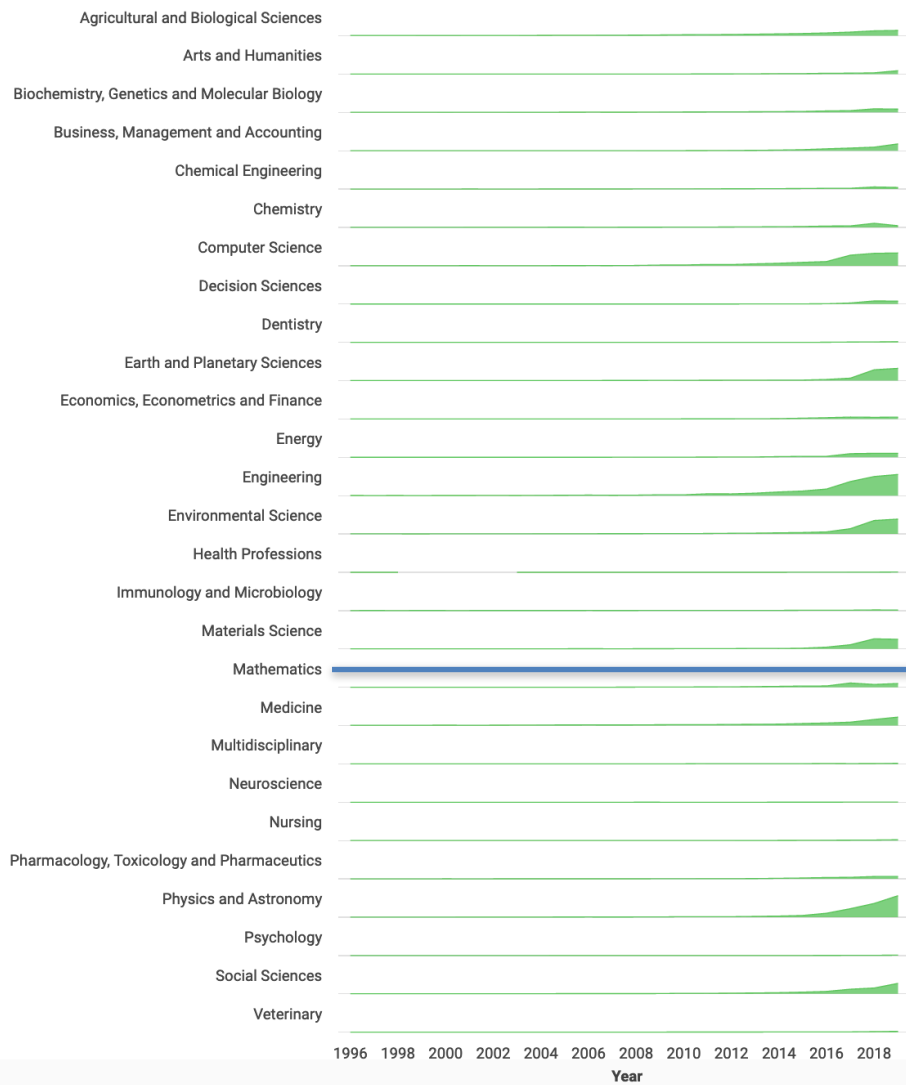
● % of the World ● % of BRIICS
● % of Asiatic Region



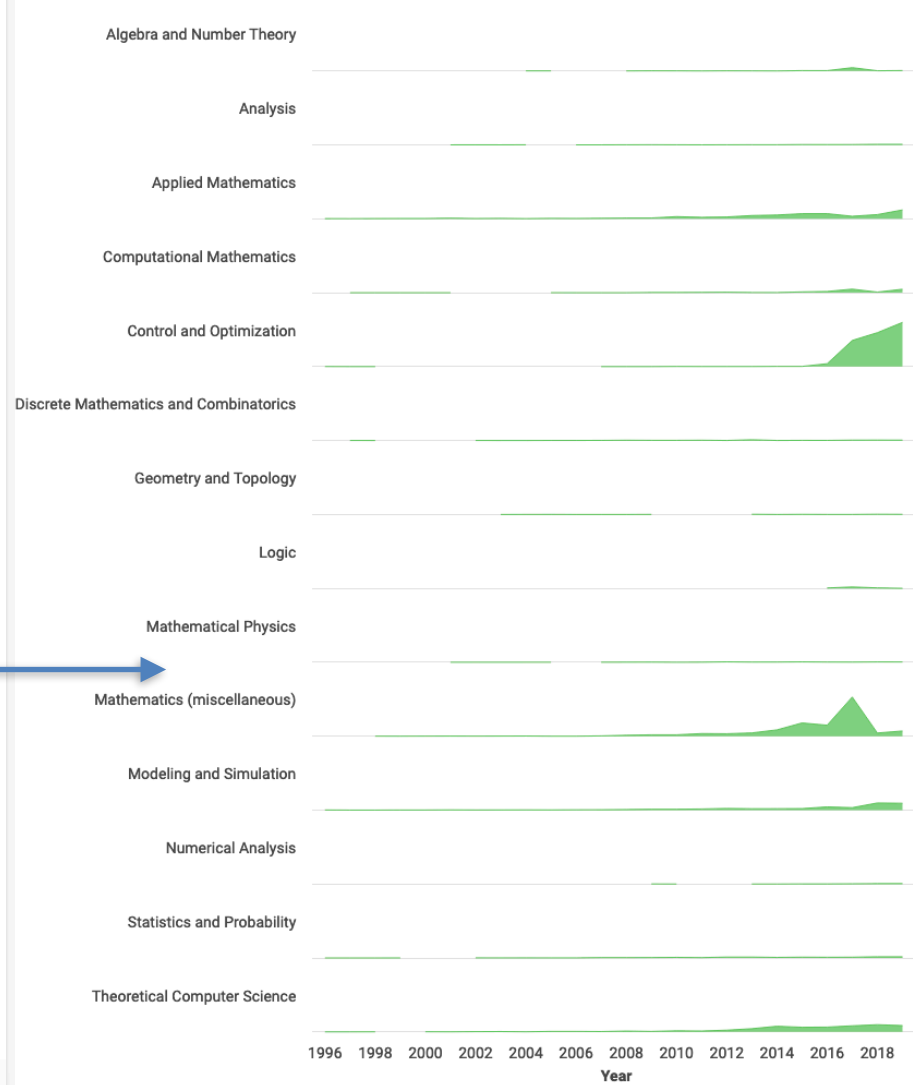


Mathematics

Documents by subject areas

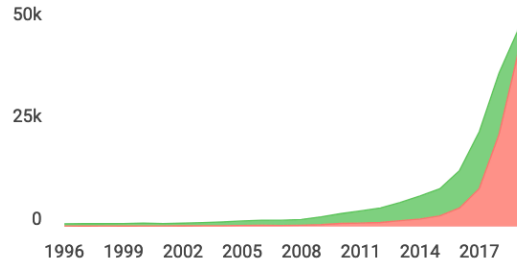


Documents by subject categories

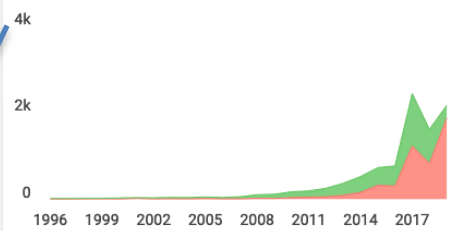


Citations

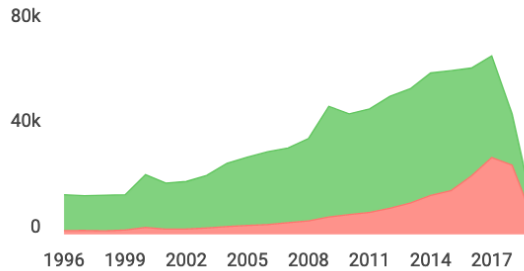
● Cited documents ● Uncited documents



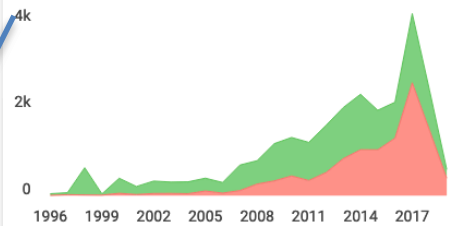
● Cited documents ● Uncited documents



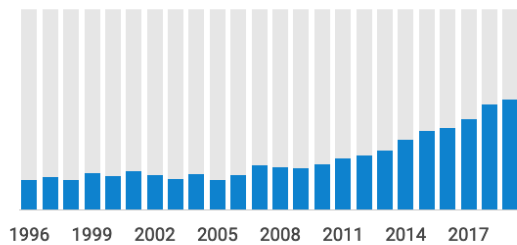
● External Cites ● Self-Cites



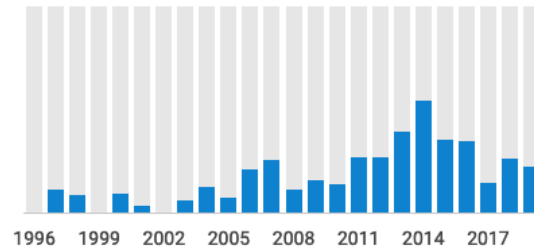
● External Cites ● Self-Cites



% Open Access Output

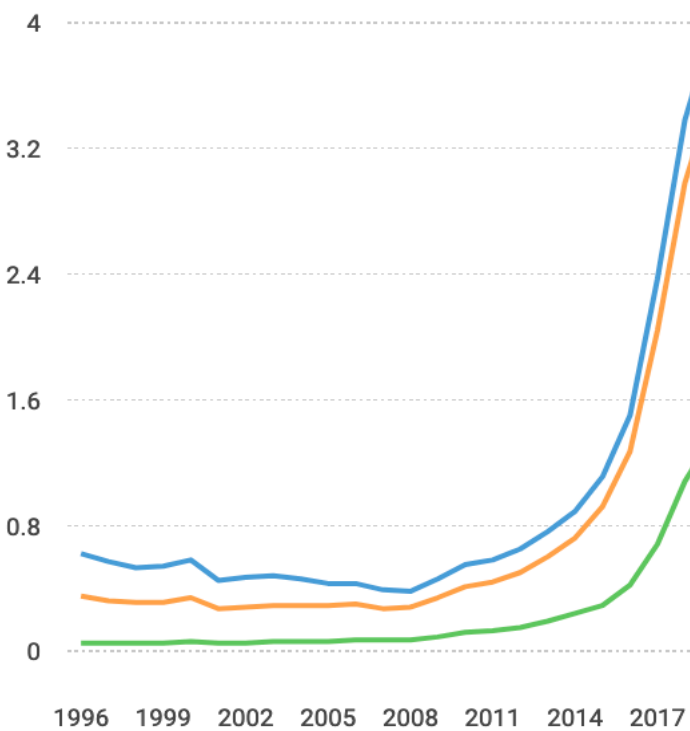


% Open Access Output



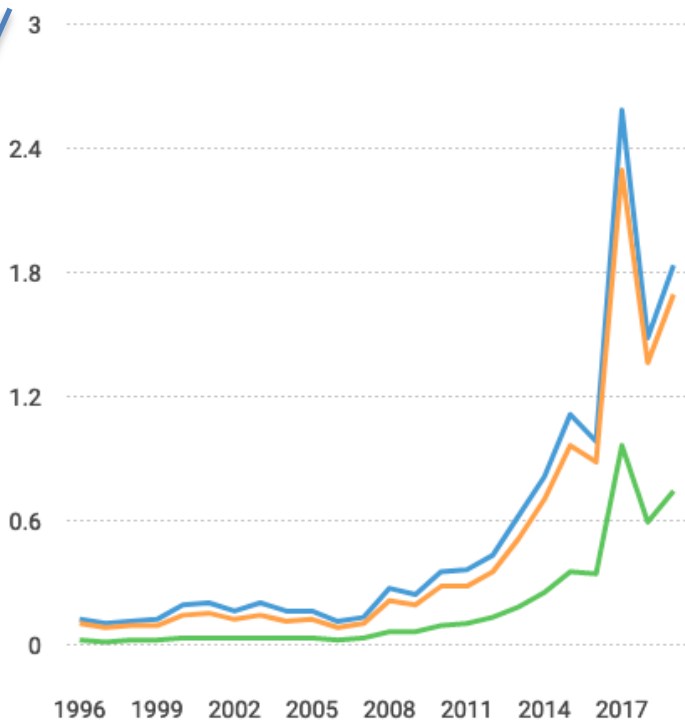
Output:

● % of the World ● % of BRIICS
● % of Asiatic Region



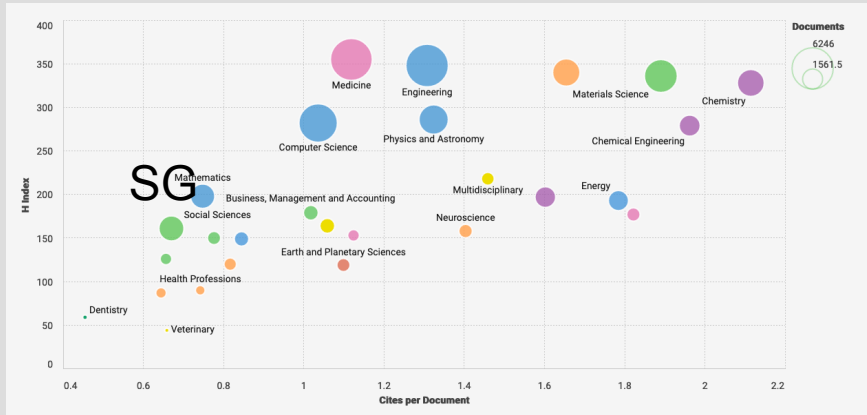
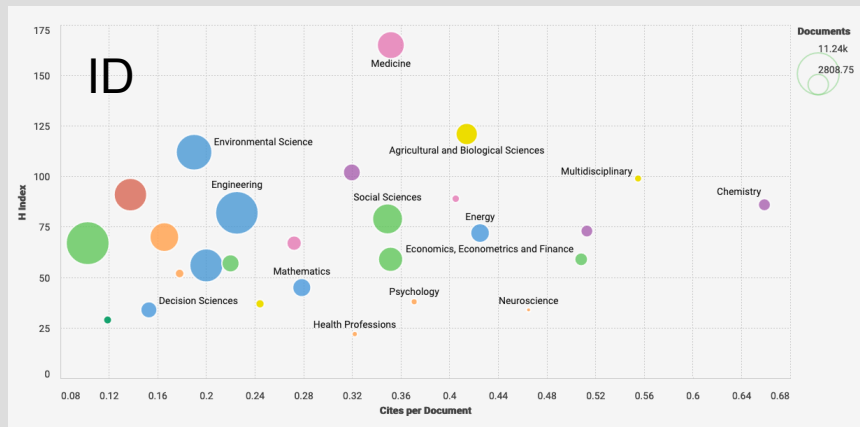
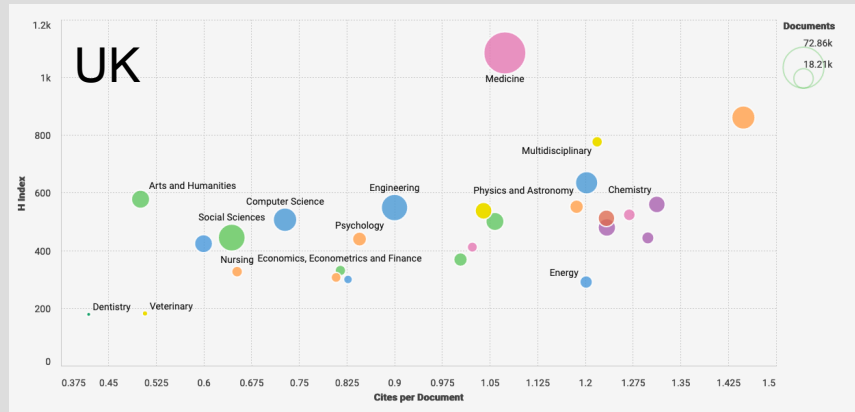
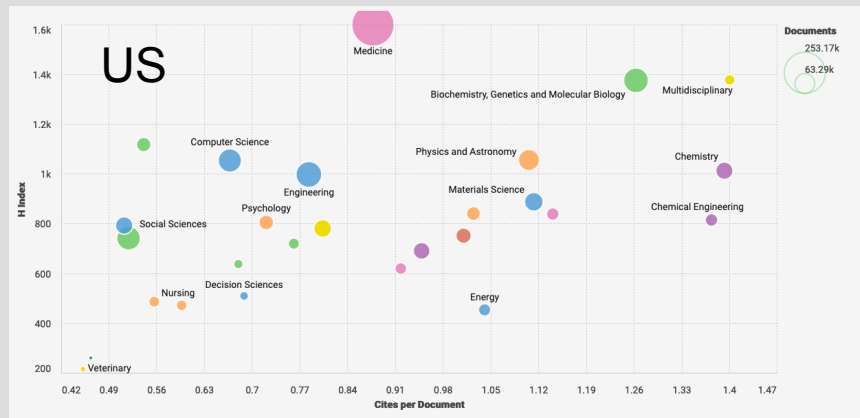
Output:

● % of the World ● % of BRIICS
● % of Asiatic Region



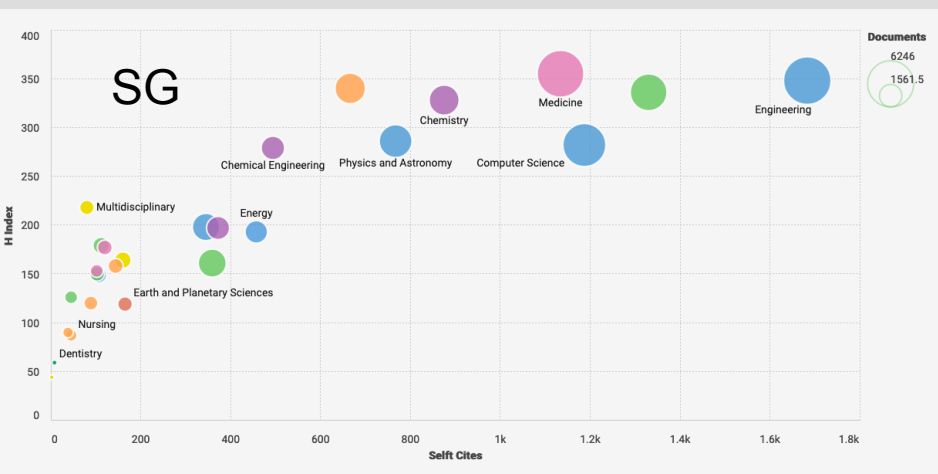
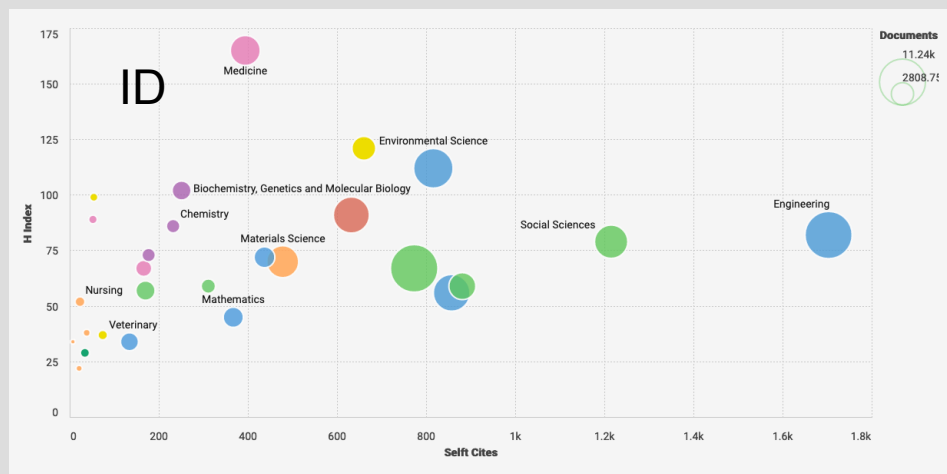
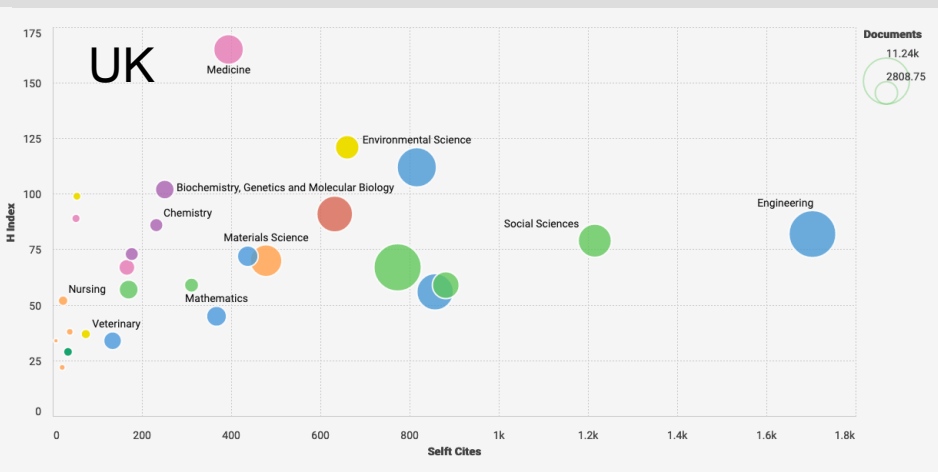
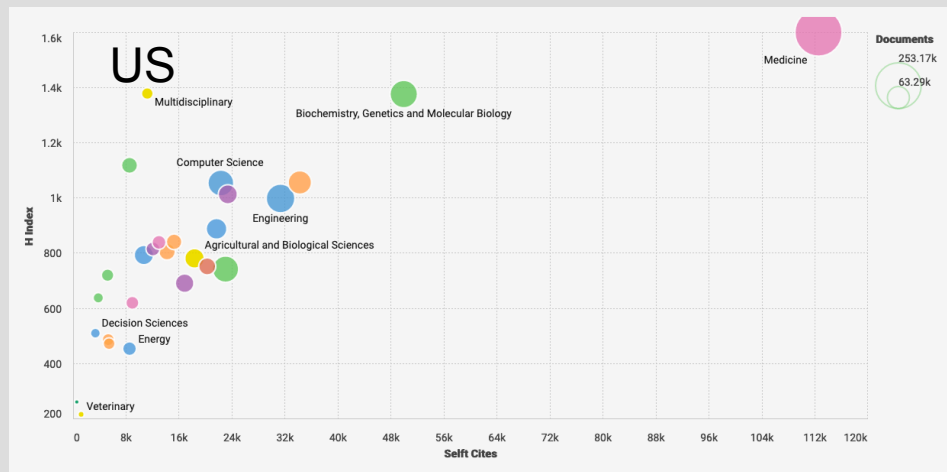
H index and cites per doc

Scimagojr -> VizTools -> Bubble chart



H index and self cites

Scimagojr -> VizTools -> Bubble chart



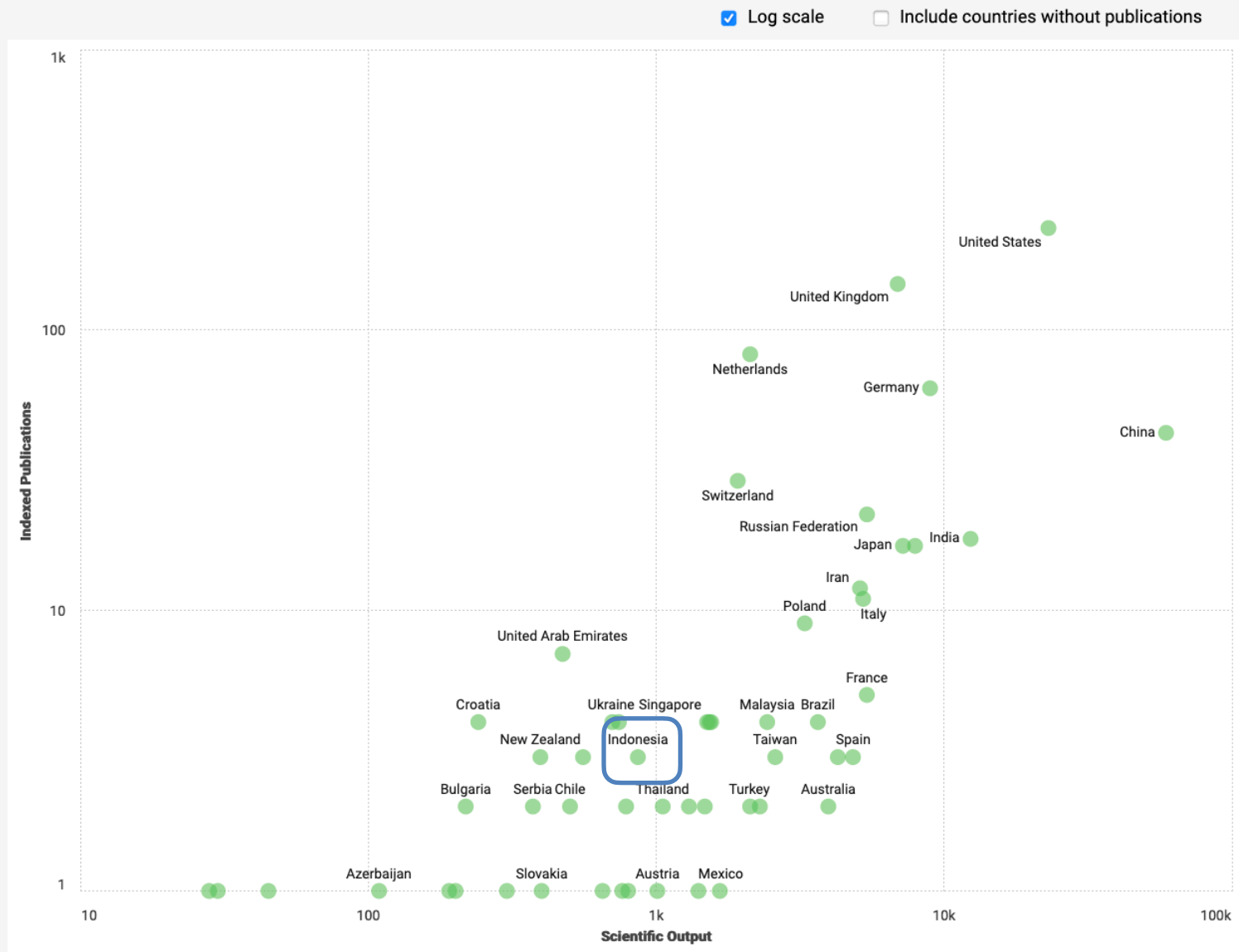
Indexed pubs vs Scientific output

Scimagojr -> VizTools -> Country graph > scatter plot

Earth and planetary science



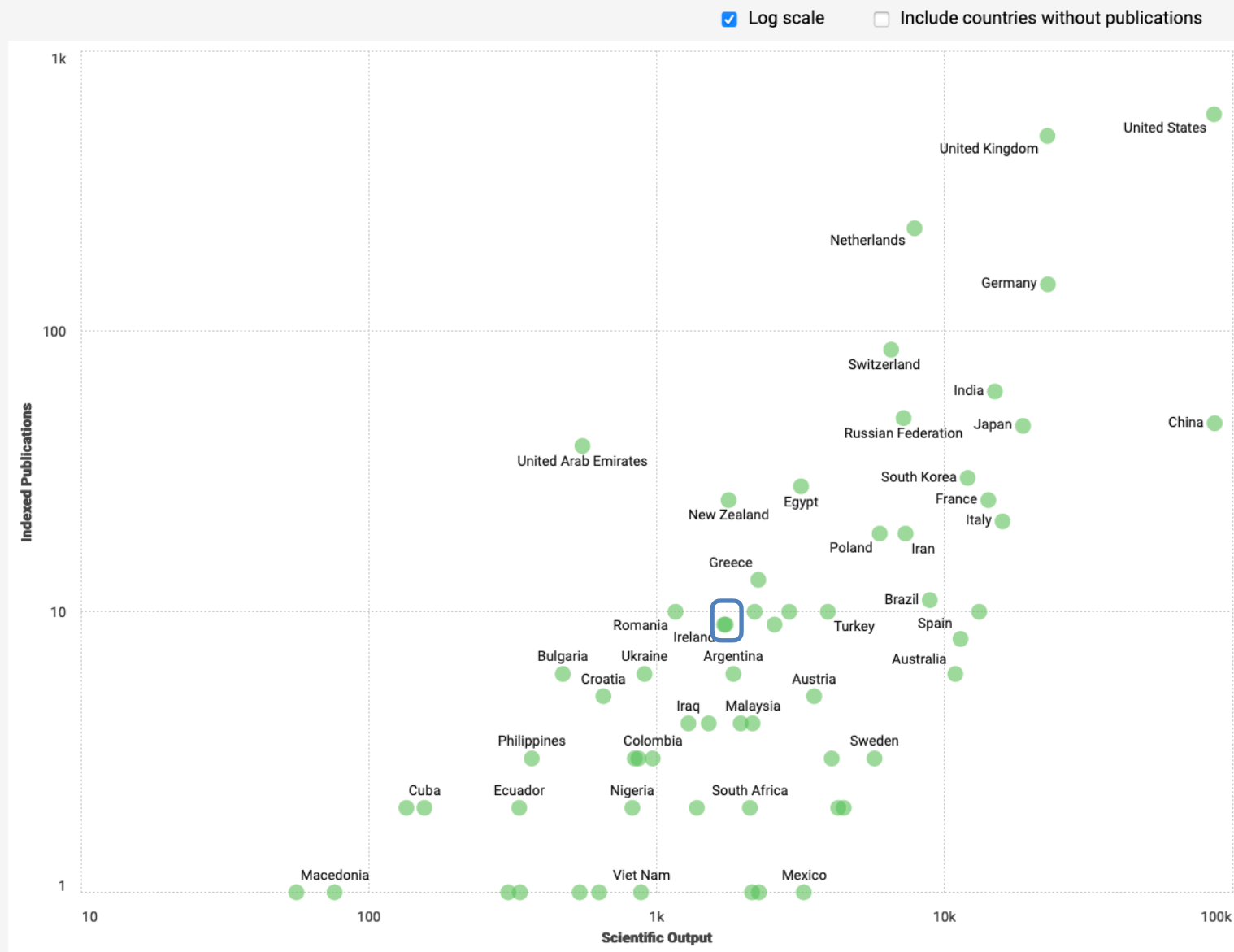
Chemical engineering



Agriculture and biological science



Agriculture and biological science



Energy

